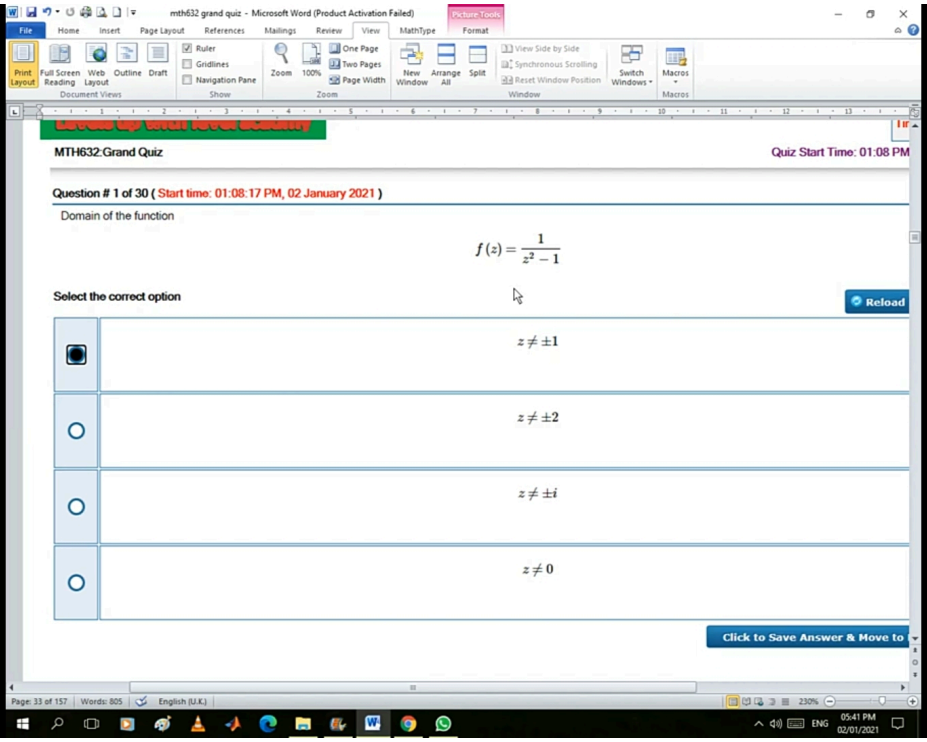
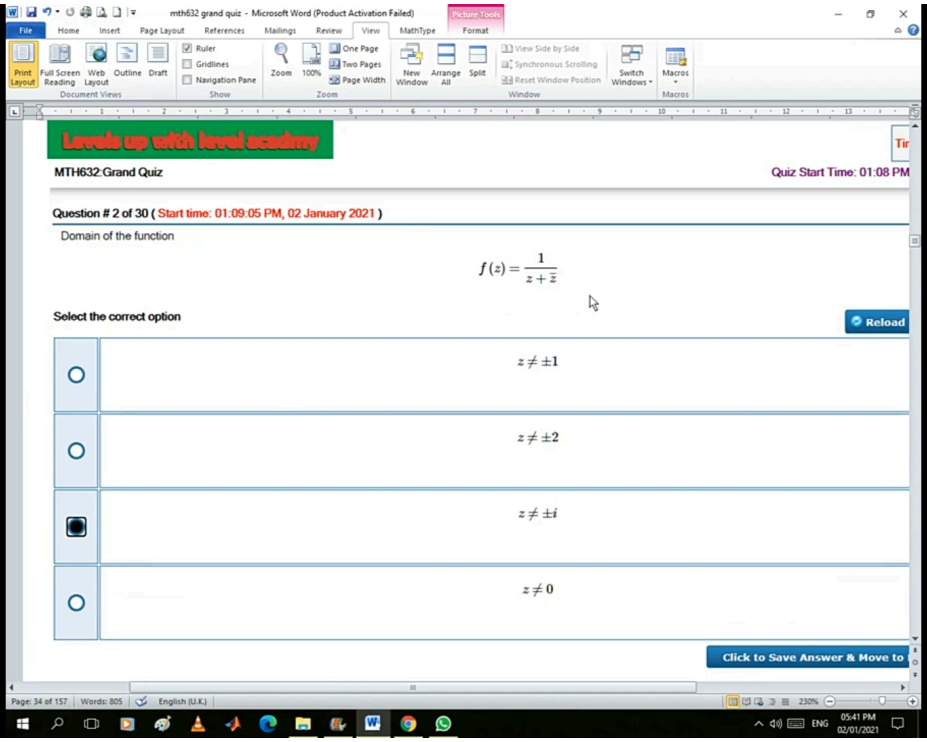
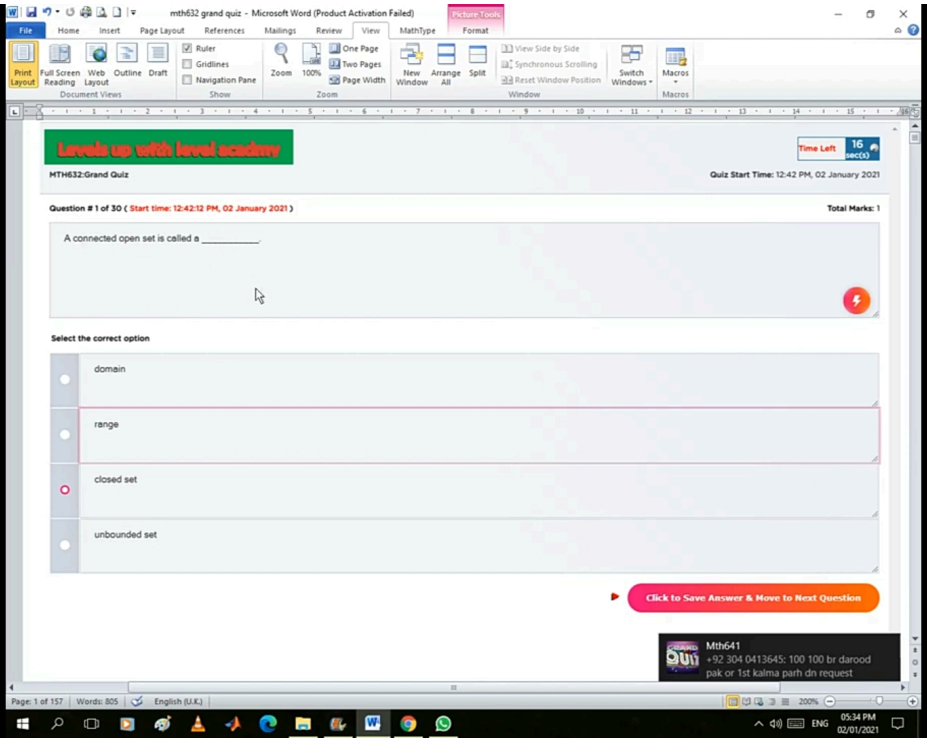

mth632 grand quiz - Microsoft Word (Product Activation Failed)
MTH632:Grand Quiz
Quiz Start Time: 01:08 PM
Question # 1 of 30 (Start time: 01:08:17 PM, 02 January 2021)
Domain of the function
$f(z) = \frac{1}{z^2 - 1}$
Select the correct option
Reload
$z \neq \pm 1$
$z \neq \pm 2$
$z \neq \pm i$
$z \neq 0$
Click to Save Answer & Move to
Page: 33 of 157
Words: 805
English (U.K.)
230%
05:41 PM
02/01/2021


mth632 grand quiz - Microsoft Word (Product Activation Failed)
Levels up with level academy
MTH632:Grand Quiz
Quiz Start Time: 01:08 PM
Question # 2 of 30 (Start time: 01:09:05 PM, 02 January 2021)
Domain of the function
$f(z) = \frac{1}{z + \bar{z}}$
Select the correct option
Reload
$z \neq \pm 1$
$z \neq \pm 2$
$z \neq \pm i$
$z \neq 0$
Click to Save Answer & Move to
Page: 34 of 157
Words: 805
English (U.K.)
230%
05:41 PM
02/01/2021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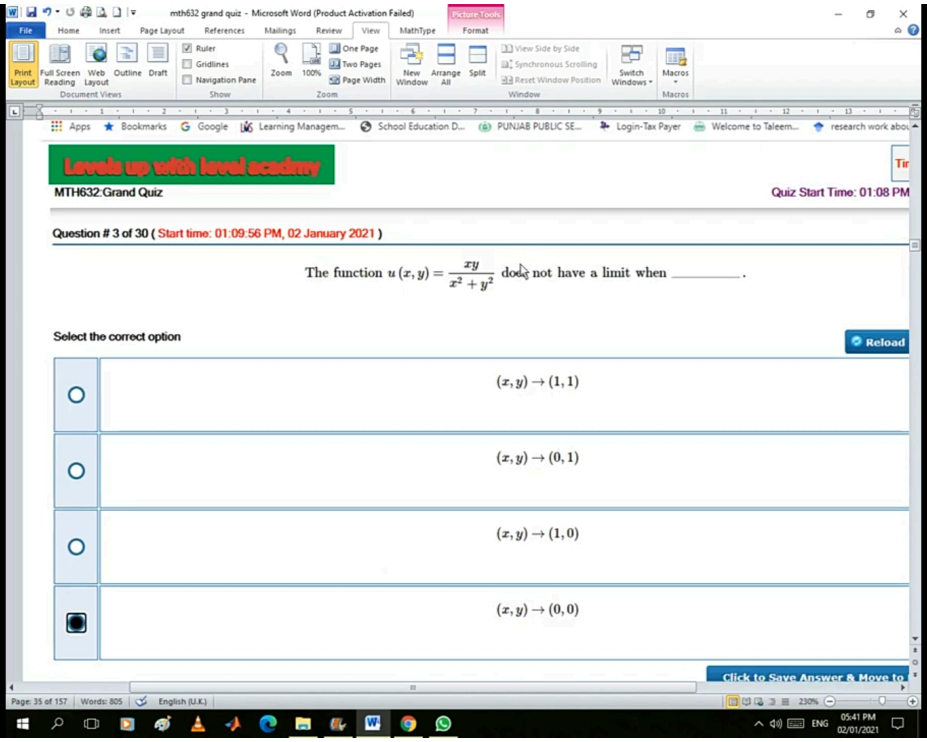
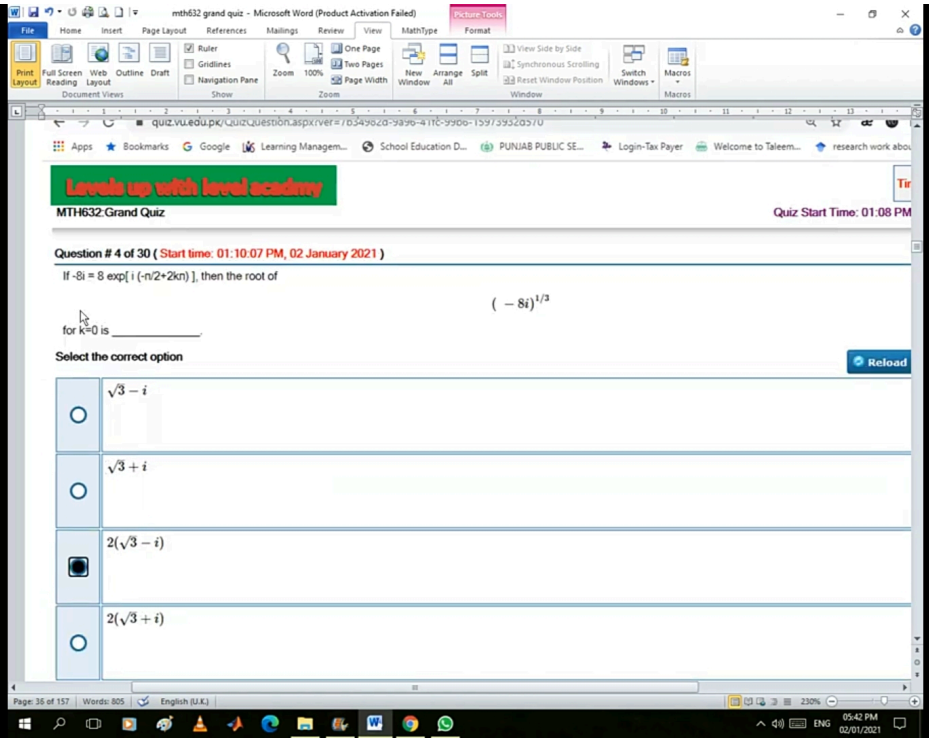
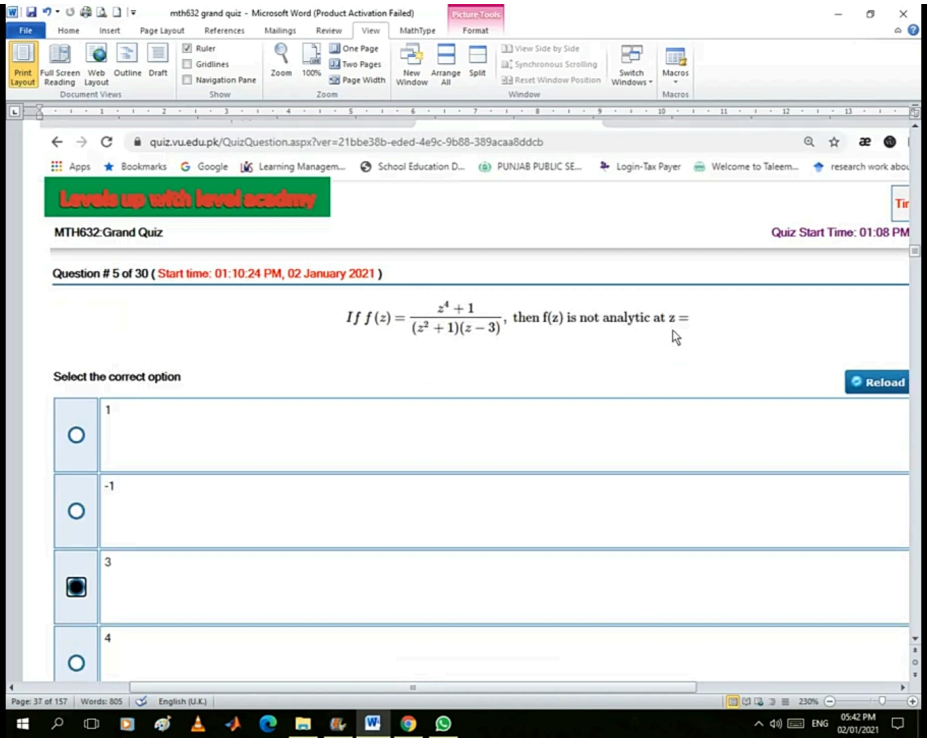
Levels up with level academy
Time Left 16 sec(s)
MTH632:Grand Quiz
Quiz Start Time: 12:42 PM, 02 January 2021
Question # 1 of 30 (Start time: 12:42:12 PM, 02 January 2021)
Total Marks: 1
A connected open set is called a _____.
Select the correct option
domain
range
closed set
unbounded set
Click to Save Answer & Move to Next Question
Mth641
+92 304 0413645: 100 100 br darood pak or 1st kalma parh dn request
LEVELS UP WITH LEVELS ACADMY ARIFWALA


mth632 grand quiz - Microsoft Word (Product Activation Failed)
Levels up with level academy
MTH632:Grand Quiz
Quiz Start Time: 01:08 PM
Question # 3 of 30 (Start time: 01:09:56 PM, 02 January 2021)
The function $u(x,y)=\frac{xy}{x^2+y^2}$ does not have a limit when _____.
Select the correct option
Reload
$(x,y)\to(1,1)$
$(x,y)\to(0,1)$
$(x,y)\to(1,0)$
$(x,y)\to(0,0)$
Click to Save Answer & Move to
LEVELS UP WITH LEVELS ACADMY ARIFWALA


mth632 grand quiz - Microsoft Word (Product Activation Failed)
Levels up with level academy
MTH632 Grand Quiz
Quiz Start Time: 01:08 PM
Question # 4 of 30 (Start time: 01:10:07 PM, 02 January 2021)
If -8i = 8 exp[i (-π/2+2kπ)], then the root of
$(-8i)^{1/3}$
for k=0 is _____.
Select the correct option
Reload
$\sqrt{3}-i$
$\sqrt{3}+i$
$2(\sqrt{3}-i)$
$2(\sqrt{3}+i)$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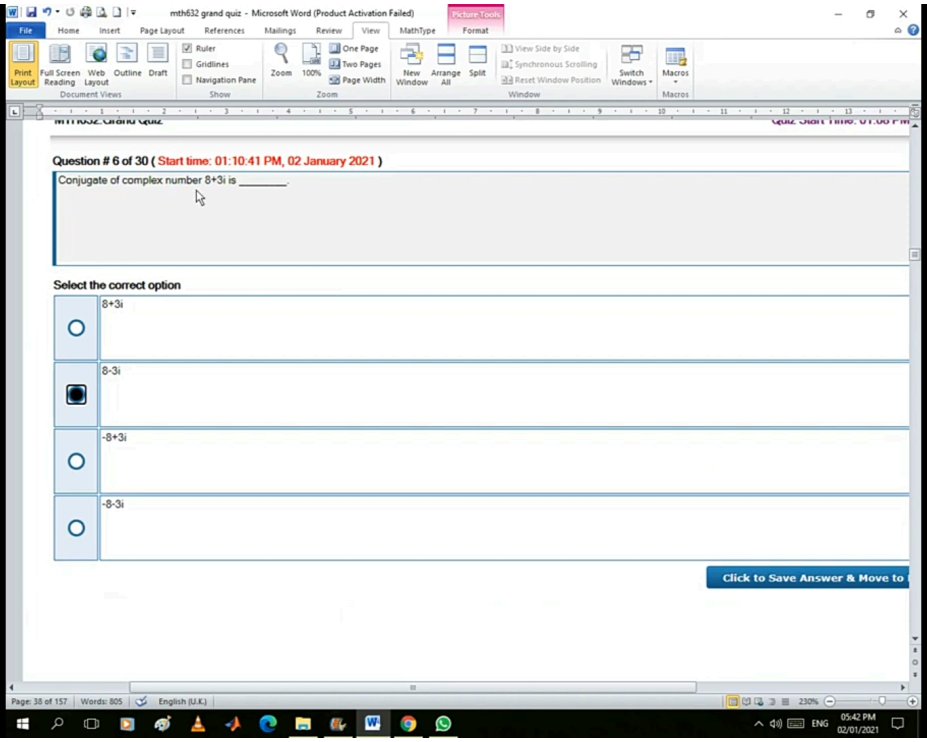
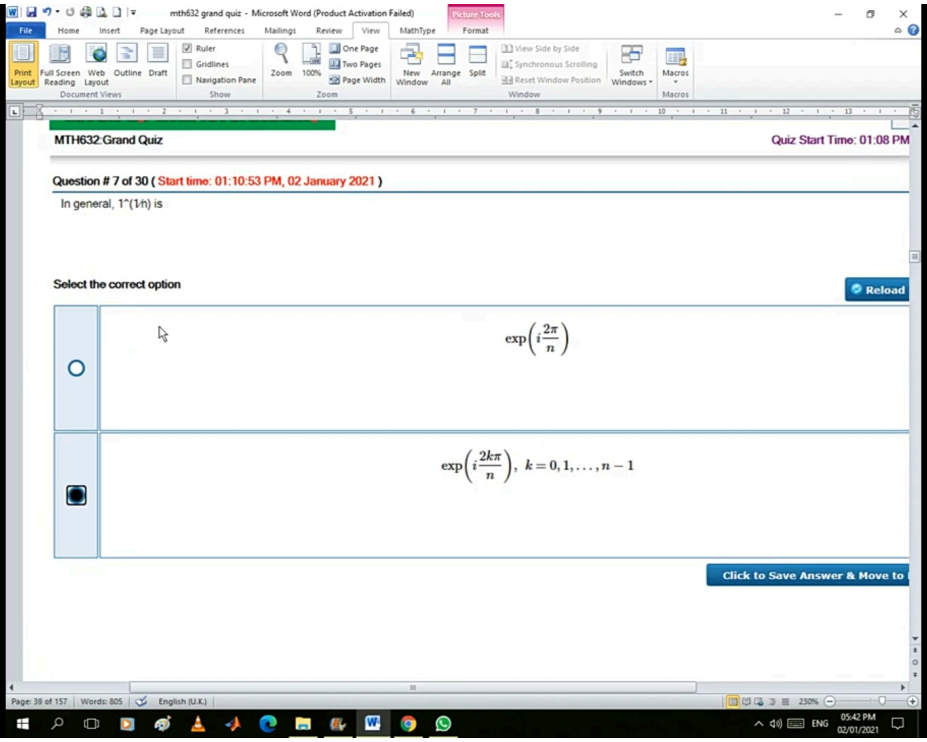
quiz.vu.edu.pk/QuizQuestion.aspx?ver=21bbe38b-eded-4e9c-9b88-389acaa8ddcb
Levels up with level academy
MTH632:Grand Quiz
Quiz Start Time: 01:08 PM
Question # 5 of 30 (Start time: 01:10:24 PM, 02 January 2021)
If $f(z) = \frac{z^4+1}{(z^2+1)(z-3)}$, then f(z) is not analytic at z =
Select the correct option
Reload
1
-1
3
4


mth632 grand quiz - Microsoft Word (Product Activation Failed)
Question # 6 of 30 (Start time: 01:10:41 PM, 02 January 2021)
Conjugate of complex number 8+3i is _____.
Select the correct option
8+3i
8-3i
-8+3i
-8-3i
Click to Save Answer & Move to
Page: 38 of 157
Words: 805
English (U.K.)
05:42 PM
02/01/2021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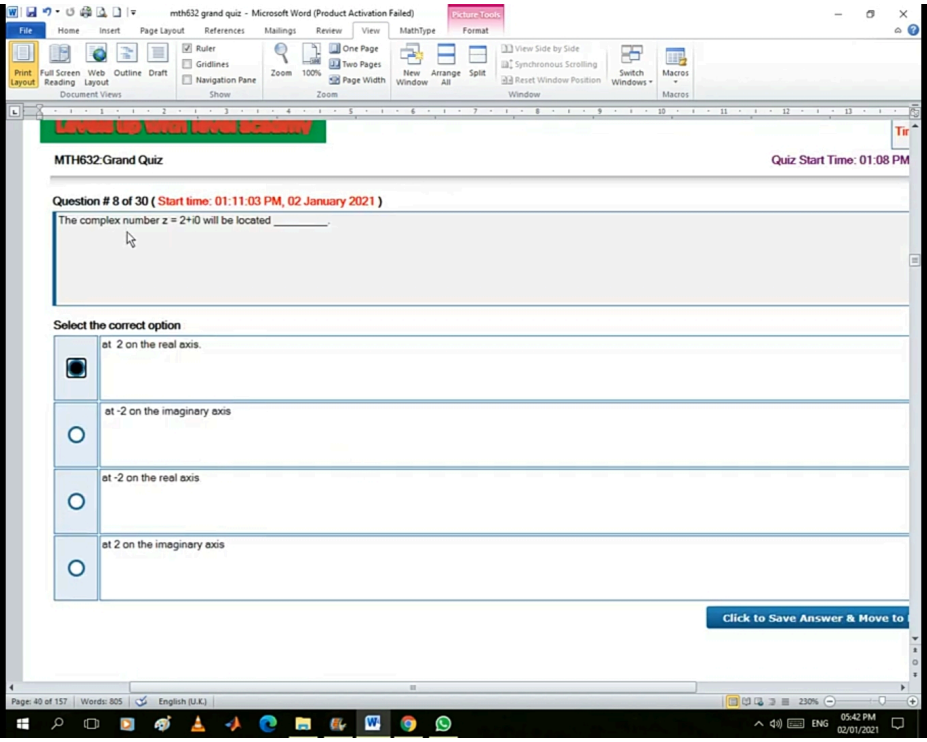
MTH632:Grand Quiz
Quiz Start Time: 01:08 PM
Question # 7 of 30 (Start time: 01:10:53 PM, 02 January 2021)
In general, 1^(1/n) is
Select the correct option
Reload
$\exp\left(i\frac{2\pi}{n}\right)$
$\exp\left(i\frac{2k\pi}{n}\right),\ k=0,1,\ldots,n-1$
Click to Save Answer & Move to
Page: 39 of 157
Words: 805
English (U.K.)
230%
05:42 PM
02/01/2021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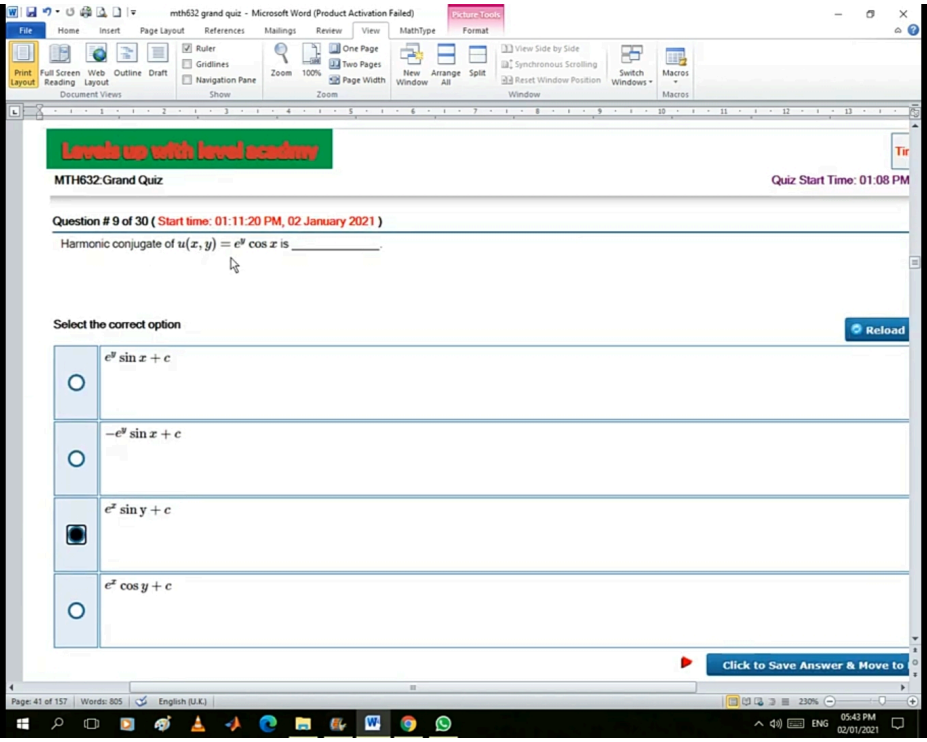
MTH632:Grand Quiz
Quiz Start Time: 01:08 PM
Question # 8 of 30 (Start time: 01:11:03 PM, 02 January 2021)
The complex number z = 2+i0 will be located _____.
Select the correct option
at 2 on the real axis.
at -2 on the imaginary axis
at -2 on the real axis
at 2 on the imaginary axis
Click to Save Answer & Move to
Page: 40 of 157
Words: 805
English (U.K.)
05:42 PM
02/01/2021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Levels up with level academy
MTH632:Grand Quiz
Quiz Start Time: 01:08 PM
Question # 9 of 30 (Start time: 01:11:20 PM, 02 January 2021)
Harmonic conjugate of $u(x, y) = e^y \cos x$ is _____.
Select the correct option
Reload
$e^y \sin x + c$
$-e^y \sin x + c$
$e^x \sin y + c$
$e^x \cos y + c$
Click to Save Answer & Move to
Page: 41 of 157
Words: 805
English (U.K.)
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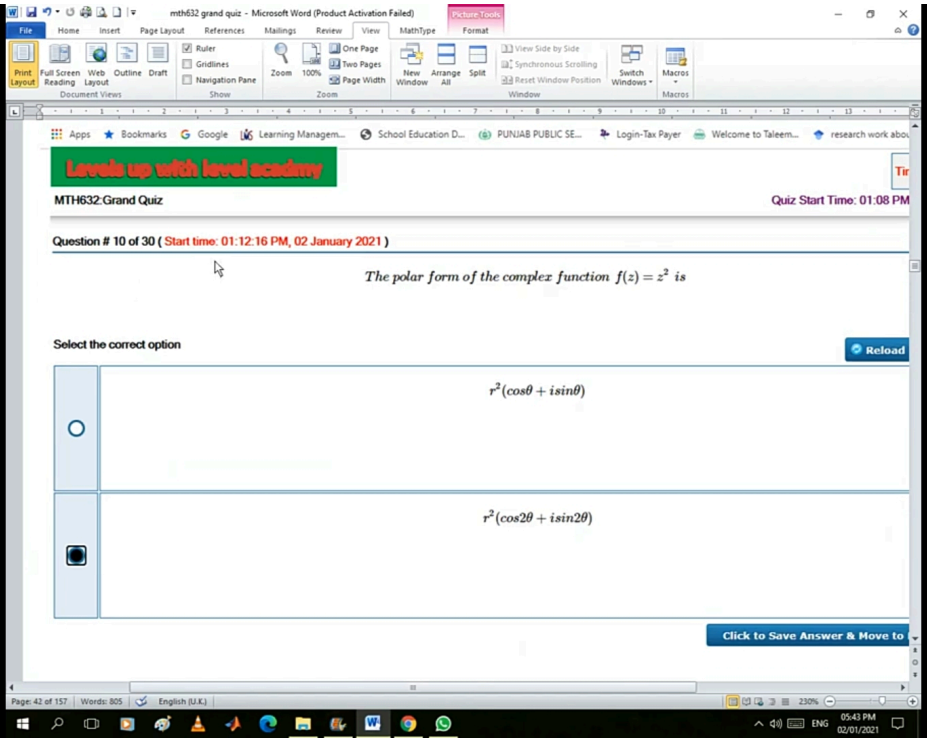
02/01/2021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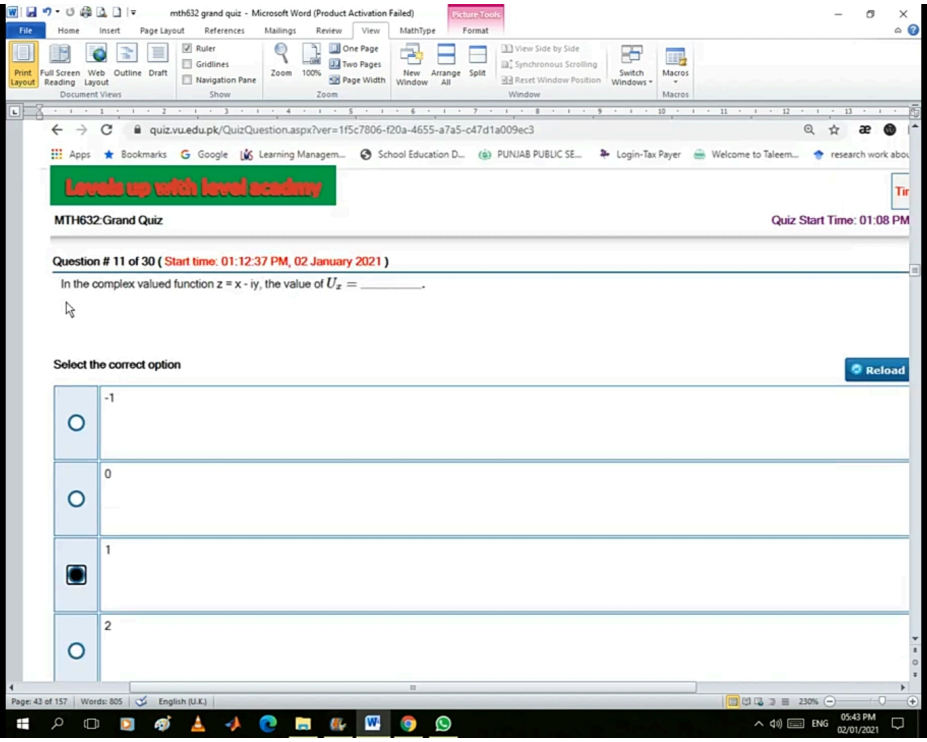
Levels up with level academy
MTH632:Grand Quiz
Quiz Start Time: 01:08 PM
Question # 10 of 30 (Start time: 01:12:16 PM, 02 January 2021)
The polar form of the complex function $f(z) = z^2$ is
Select the correct option
Reload
$r^2(cos\theta + isin\theta)$
$r^2(cos2\theta + isin2\theta)$
Click to Save Answer & Move to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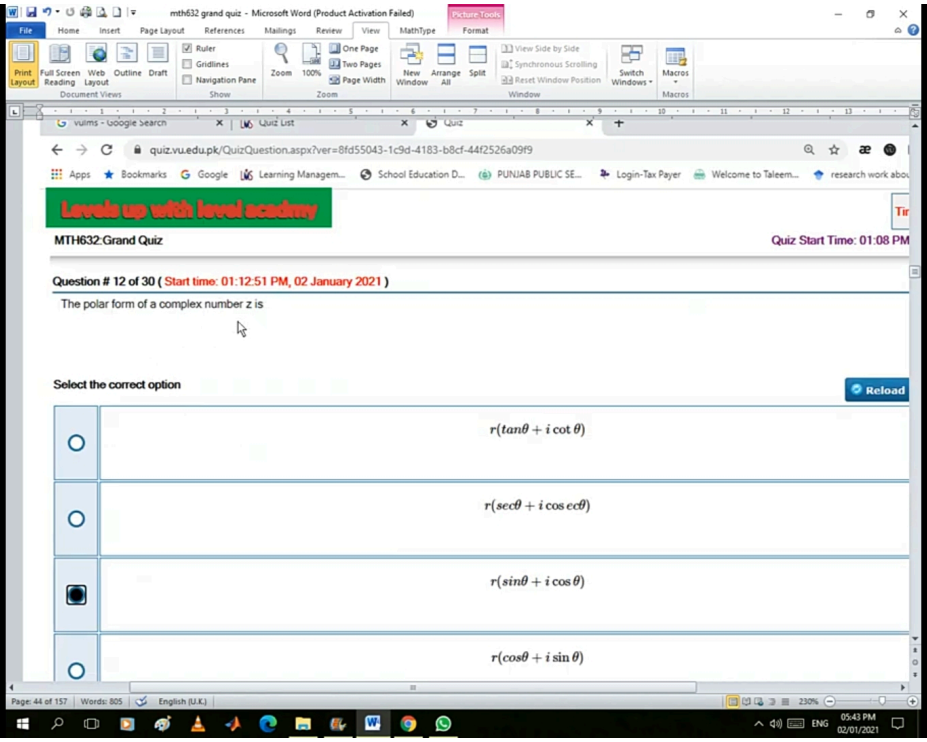
Levels up with level academy
MTH632:Grand Quiz
Quiz Start Time: 01:08 PM
Question # 11 of 30 (Start time: 01:12:37 PM, 02 January 2021)
In the complex valued function z = x - iy, the value of $U_z =$ _____.
Select the correct option
Reload
-1
0
1
2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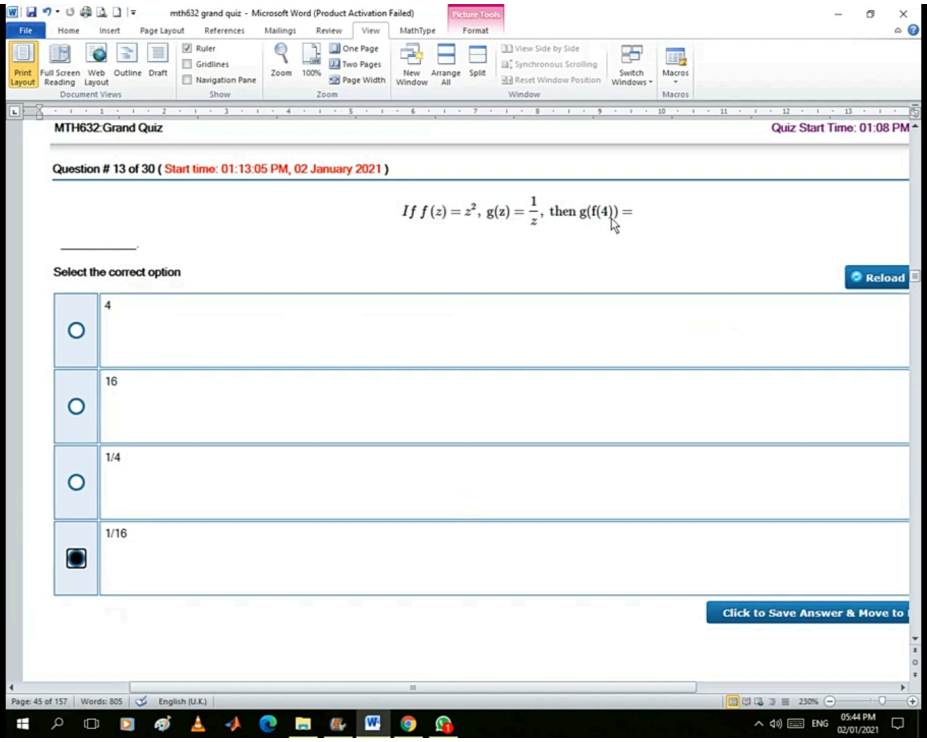
Levels up with level academy
MTH632:Grand Quiz
Quiz Start Time: 01:08 PM
Question # 12 of 30 (Start time: 01:12:51 PM, 02 January 2021)
The polar form of a complex number z is
Select the correct option
Reload
$r(tan\theta + i\cot\theta)$
$r(sec\theta + i\cos ec\theta)$
$r(sin\theta + i\cos\theta)$
$r(cos\theta + i\sin\theta)$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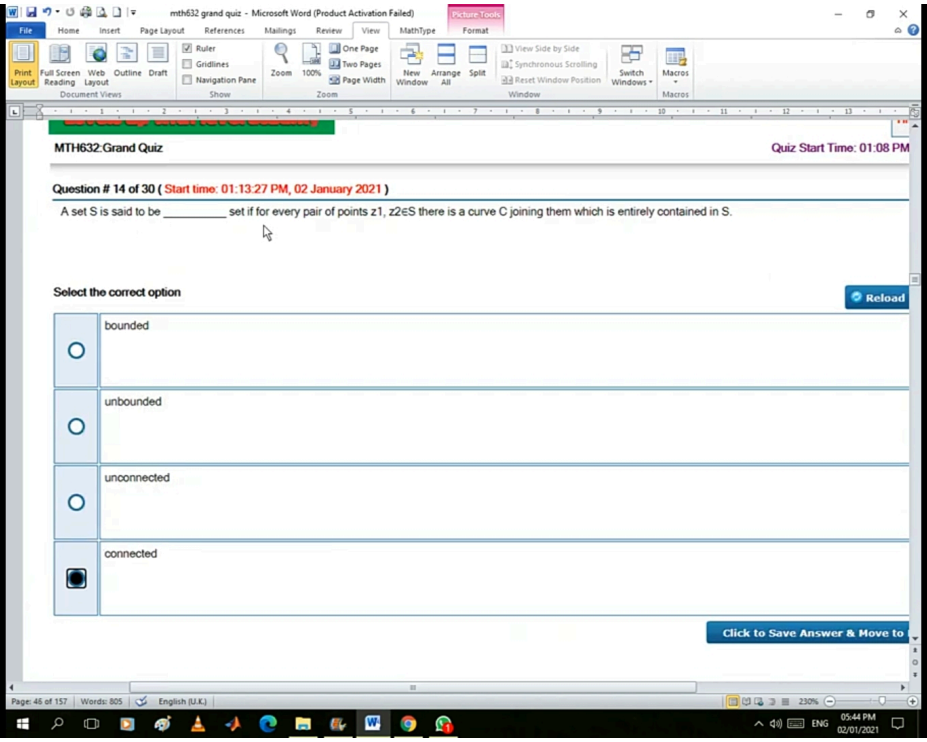
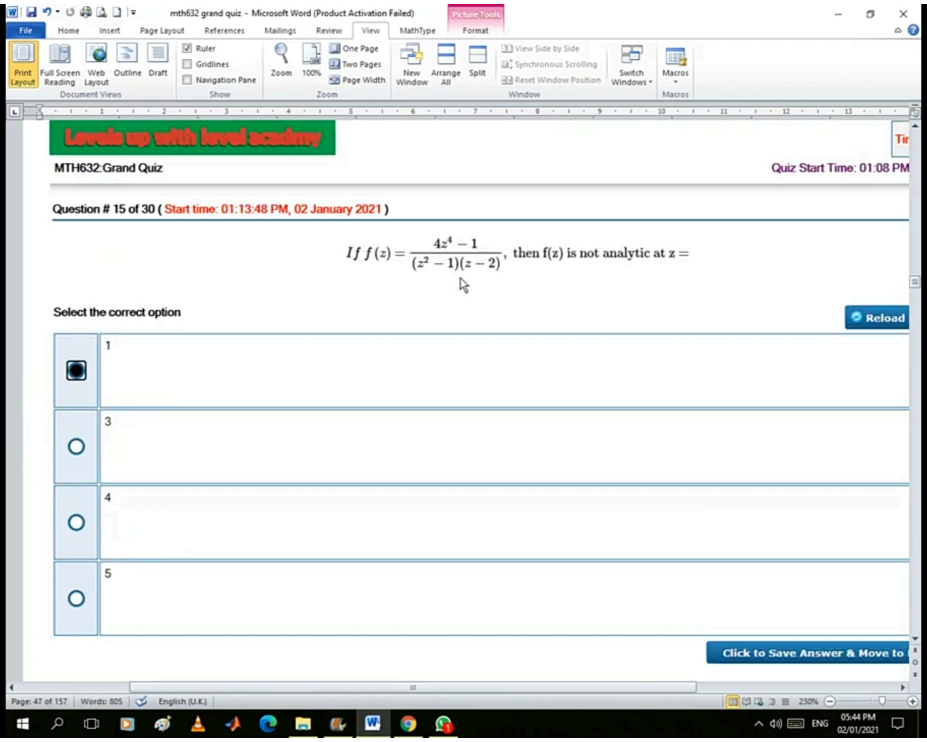
MTH632:Grand Quiz
Quiz Start Time: 01:08 PM
Question # 13 of 30 (Start time: 01:13:05 PM, 02 January 2021)
If $f(z) = z^2$, $g(z) = \frac{1}{z}$, then $g(f(4)) =$
Select the correct option
Reload
4
16
1/4
1/16
Click to Save Answer & Move to
Page: 45 of 157
Words: 805
English (U.K.)
230%
ENG
05:44 PM
02/01/2021


mth632 grand quiz - Microsoft Word (Product Activation Failed)
MTH632:Grand Quiz
Quiz Start Time: 01:08 PM
Question # 14 of 30 (Start time: 01:13:27 PM, 02 January 2021)
A set S is said to be _____ set if for every pair of points z1, z2∈S there is a curve C joining them which is entirely contained in S.
Select the correct option
Reload
bounded
unbounded
unconnected
connected
Click to Save Answer & Move to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Levels up with level academy
MTH632:Grand Quiz
Quiz Start Time: 01:08 PM
Question # 15 of 30 (Start time: 01:13:48 PM, 02 January 2021)
If $f(z) = \frac{4z^4 - 1}{(z^2 - 1)(z - 2)}$, then f(z) is not analytic at z =
Select the correct option
Reload
1
3
4
5
Click to Save Answer & Move to
Page: 47 of 157
Words: 805
English (U.K.)
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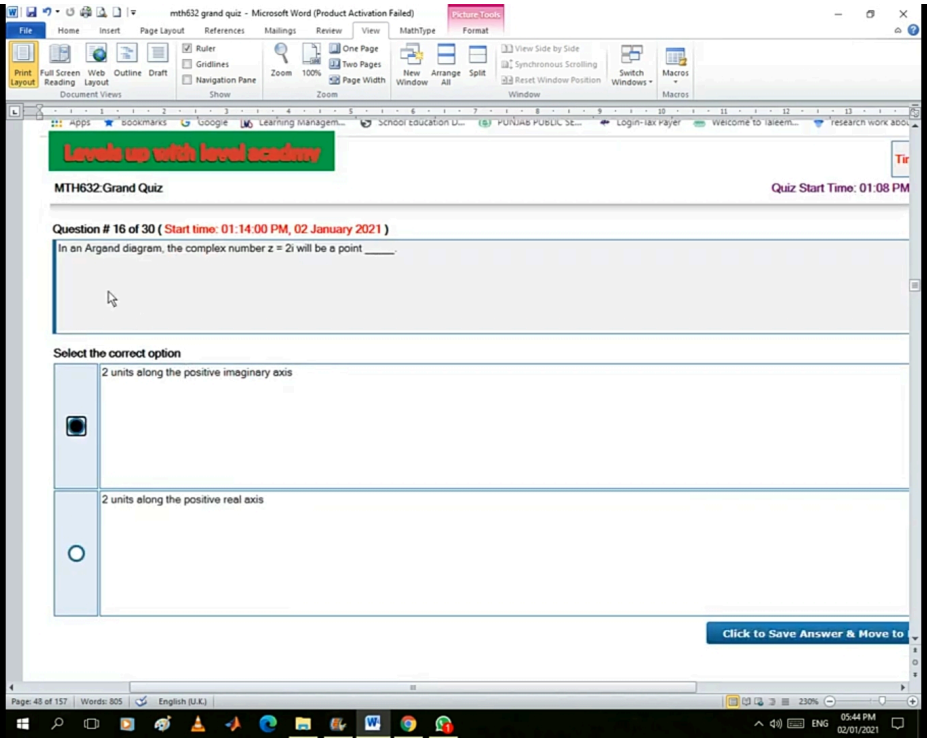
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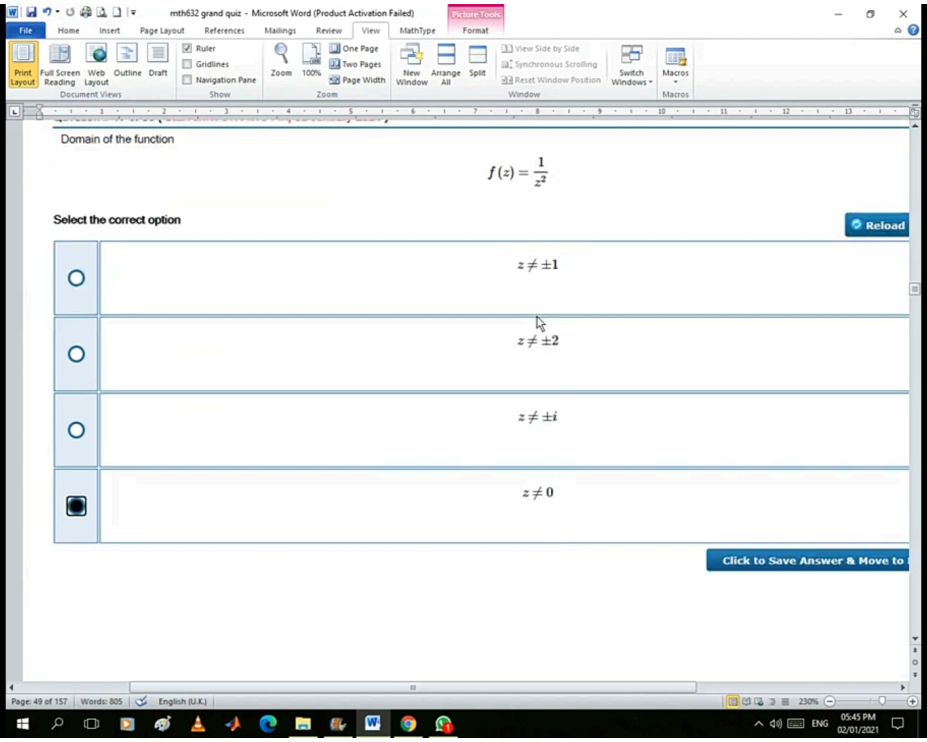
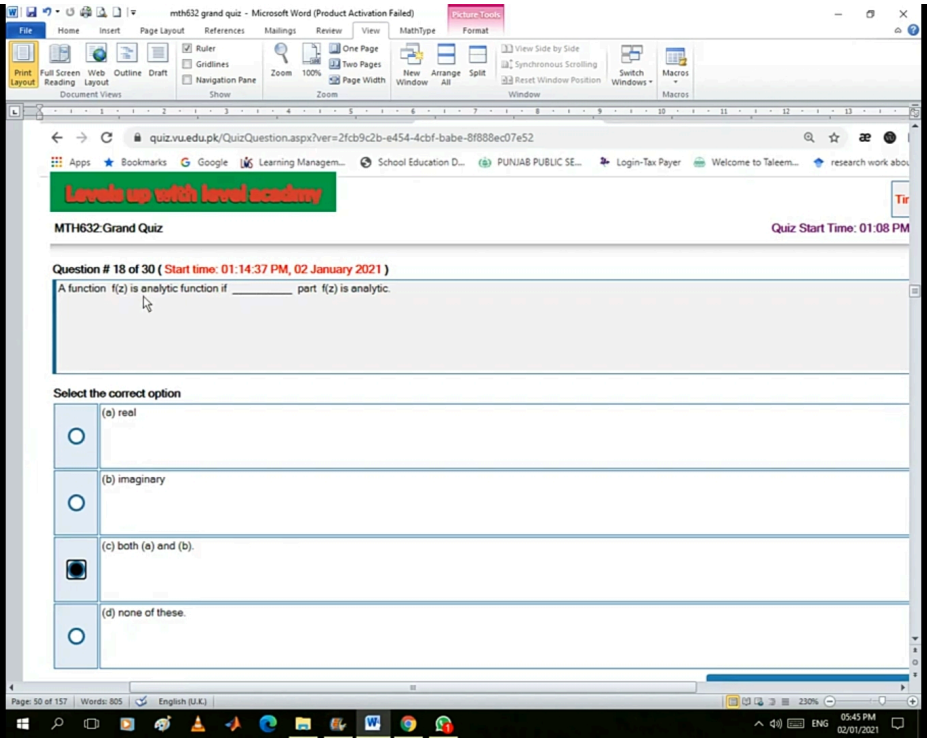
Levels up with level academy
MTH632:Grand Quiz
Quiz Start Time: 01:08 PM
Question # 16 of 30 (Start time: 01:14:00 PM, 02 January 2021)
In an Argand diagram, the complex number z = 2i will be a point _____.
Select the correct option
2 units along the positive imaginary axis
2 units along the positive real axis
Click to Save Answer & Move to
Page: 48 of 157
Words: 805
English (U.K.)
05:44 PM
02/01/2021


mth632 grand quiz - Microsoft Word (Product Activation Failed)
Domain of the function
$f(z) = \frac{1}{z^2}$
Select the correct option
Reload
$z \neq \pm 1$
$z \neq \pm 2$
$z \neq \pm i$
$z \neq 0$
Click to Save Answer & Move to
Page: 49 of 157
Words: 805
English (U.K.)
230%
05:45 PM
02/01/2021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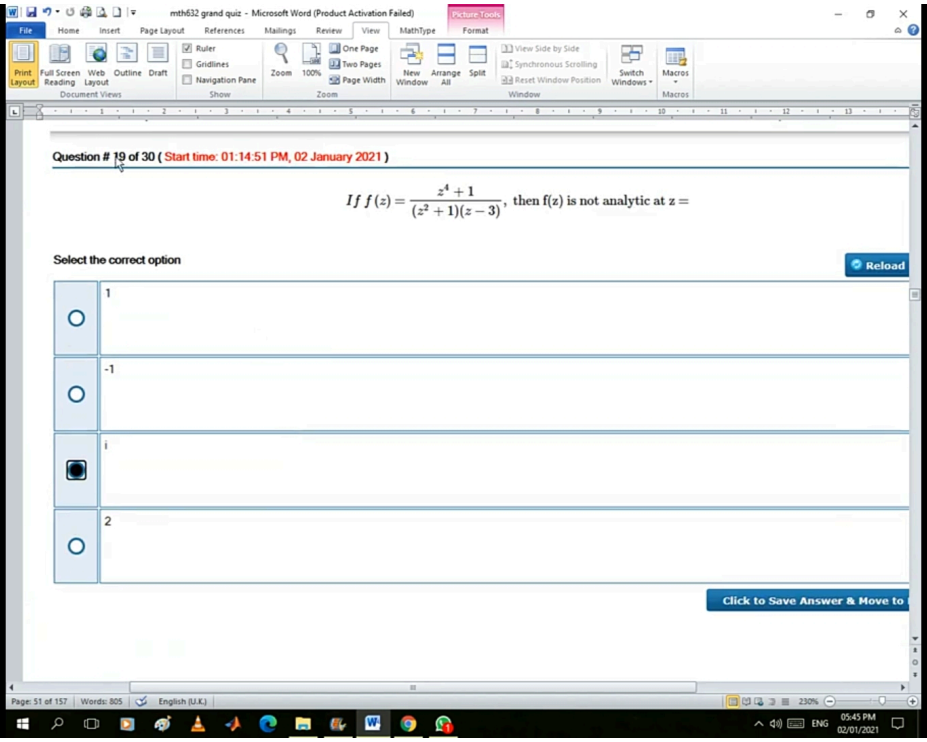
Levels up with level academy
MTH632:Grand Quiz
Quiz Start Time: 01:08 PM
Question # 18 of 30 (Start time: 01:14:37 PM, 02 January 2021)
A function f(z) is analytic function if _____ part f(z) is analytic.
Select the correct option
(a) real
(b) imaginary
(c) both (a) and (b).
(d) none of these.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Question # 19 of 30 (Start time: 01:14:51 PM, 02 January 2021)
If $f(z) = \frac{z^4+1}{(z^2+1)(z-3)}$, then f(z) is not analytic at z =
Select the correct option
Reload
1
-1
i
2
Click to Save Answer & Move to
Page: 51 of 157
Words: 805
English (U.K.)
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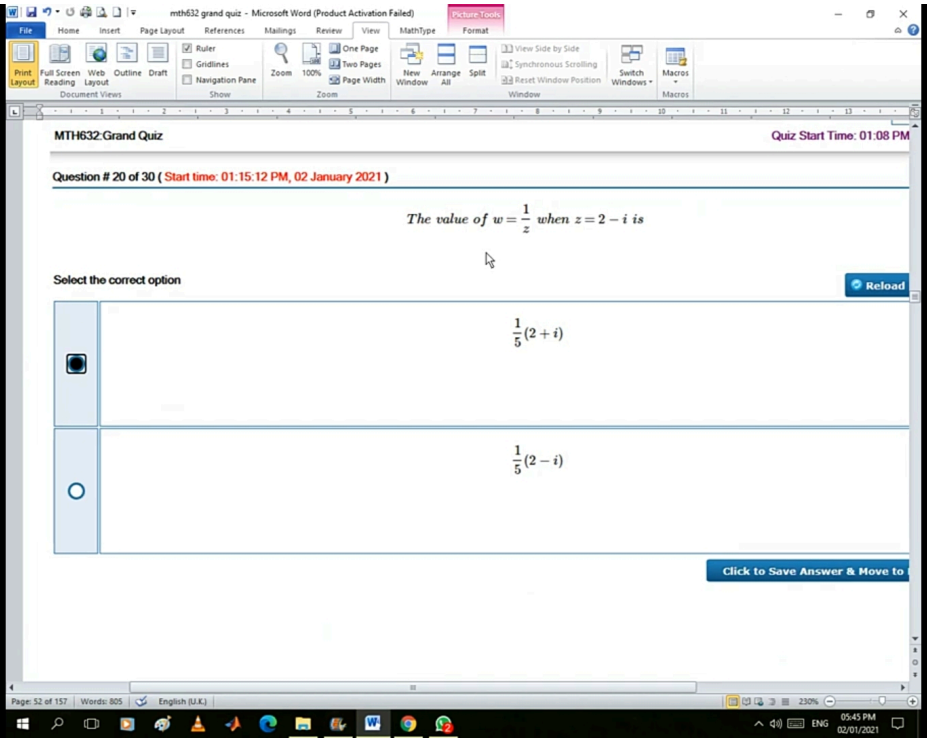

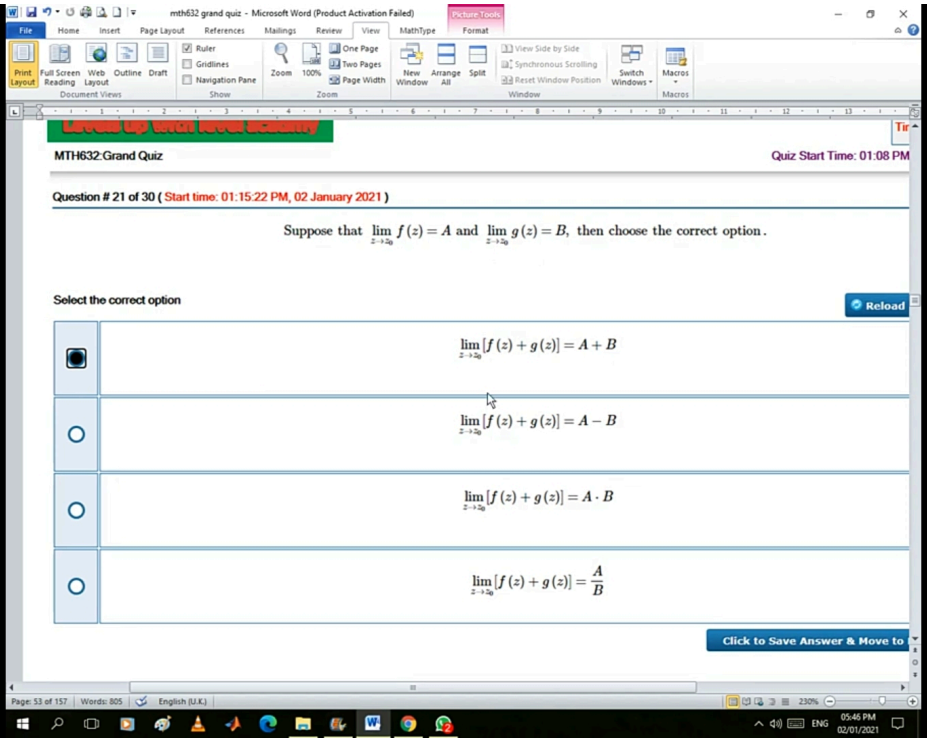
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MTH632:Grand Quiz
Quiz Start Time: 01:08 PM
Question # 21 of 30 (Start time: 01:15:22 PM, 02 January 2021)
Suppose that $\lim_{z \to z_0} f(z) = A$ and $\lim_{z \to z_0} g(z) = B$, then choose the correct option.
Select the correct option
Reload
$\lim_{z \to z_0}[f(z) + g(z)] = A + B$
$\lim_{z \to z_0}[f(z) + g(z)] = A - B$
$\lim_{z \to z_0}[f(z) + g(z)] = A \cdot B$
$\lim_{z \to z_0}[f(z) + g(z)] = \frac{A}{B}$
Click to Save Answer & Move to
Page: 53 of 157
Words: 805
English (U.K.)
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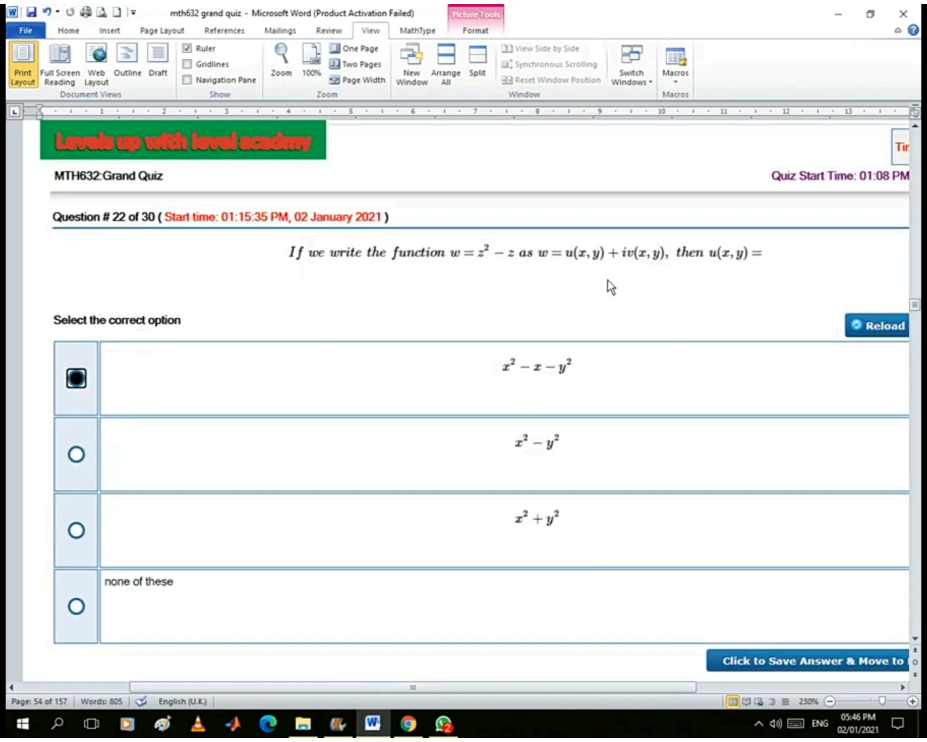
ENG
05:46 PM
02/01/2021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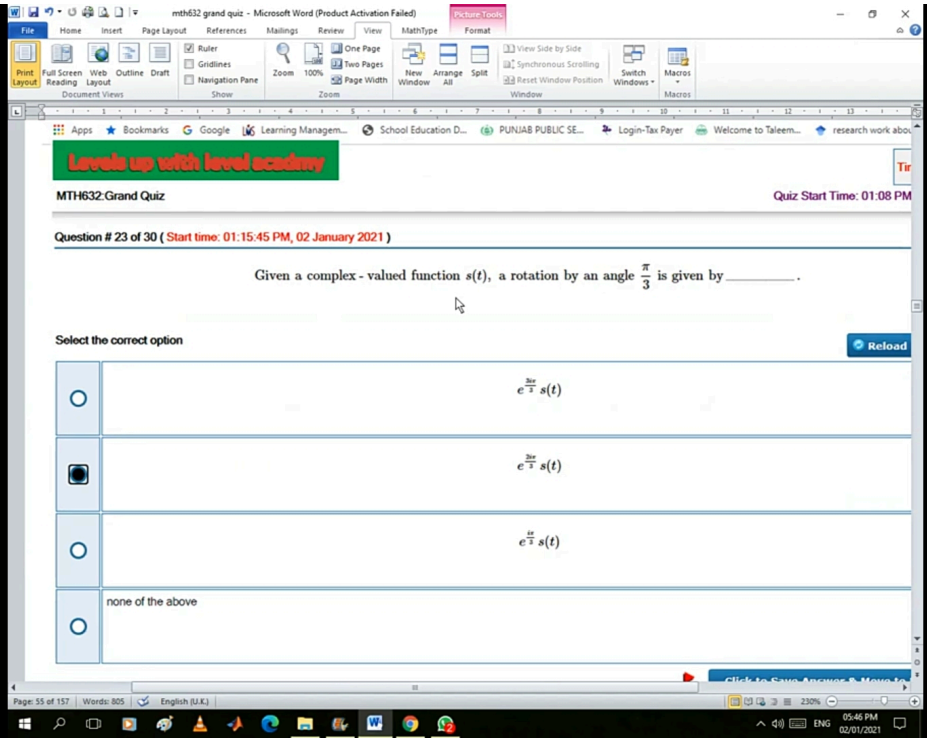
Levels up with level academy
MTH632:Grand Quiz
Quiz Start Time: 01:08 PM
Question # 22 of 30 (Start time: 01:15:35 PM, 02 January 2021)
If we write the function $w = z^2 - z$ as $w = u(x,y) + iv(x,y)$, then $u(x,y) =$
Select the correct option
Reload
$x^2 - x - y^2$
$x^2 - y^2$
$x^2 + y^2$
none of these
Click to Save Answer & Move to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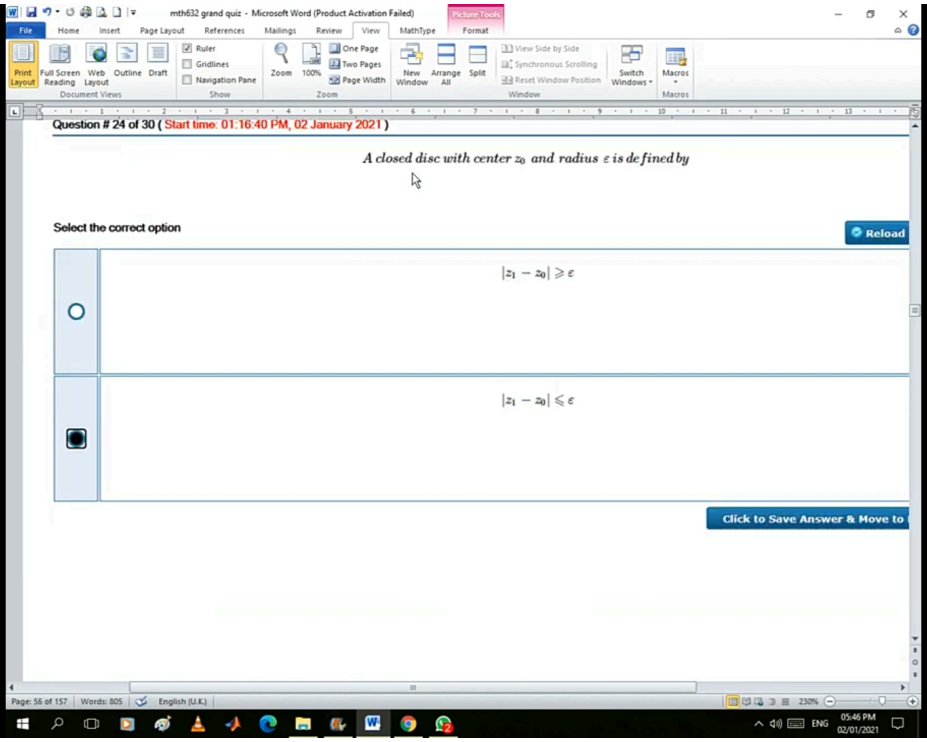
Levels up with level academy
MTH632:Grand Quiz
Quiz Start Time: 01:08 PM
Question # 23 of 30 (Start time: 01:15:45 PM, 02 January 2021)
Given a complex - valued function $s(t)$, a rotation by an angle $\frac{\pi}{3}$ is given by_____.
Select the correct option
Reload
$e^{\frac{3i\pi}{2}}s(t)$
$e^{\frac{3i\pi}{2}}s(t)$
$e^{\frac{i\pi}{2}}s(t)$
none of the above


mth632 grand quiz - Microsoft Word (Product Activation Failed)
Question # 24 of 30 (Start time: 01:16:40 PM, 02 January 2021)
A closed disc with center z_0 and radius ε is defined by
Select the correct option
Reload
$|z_1 - z_0| \geqslant \varepsilon$
$|z_1 - z_0| \leqslant \varepsilon$
Click to Save Answer & Move to
Page: 56 of 157
Words: 805
English (U.K.)
230%
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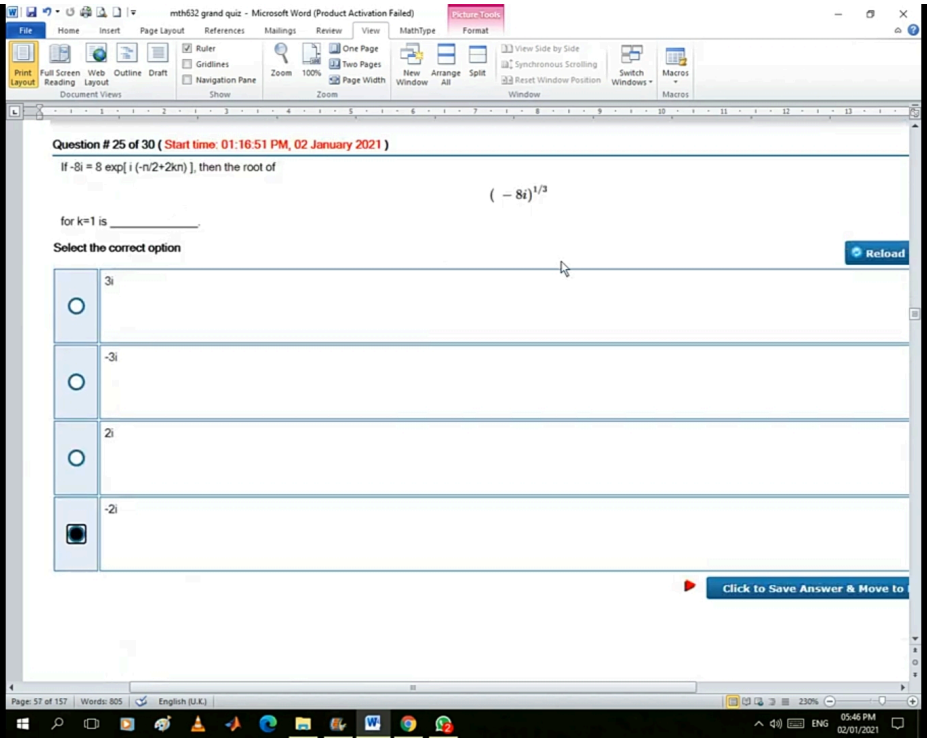
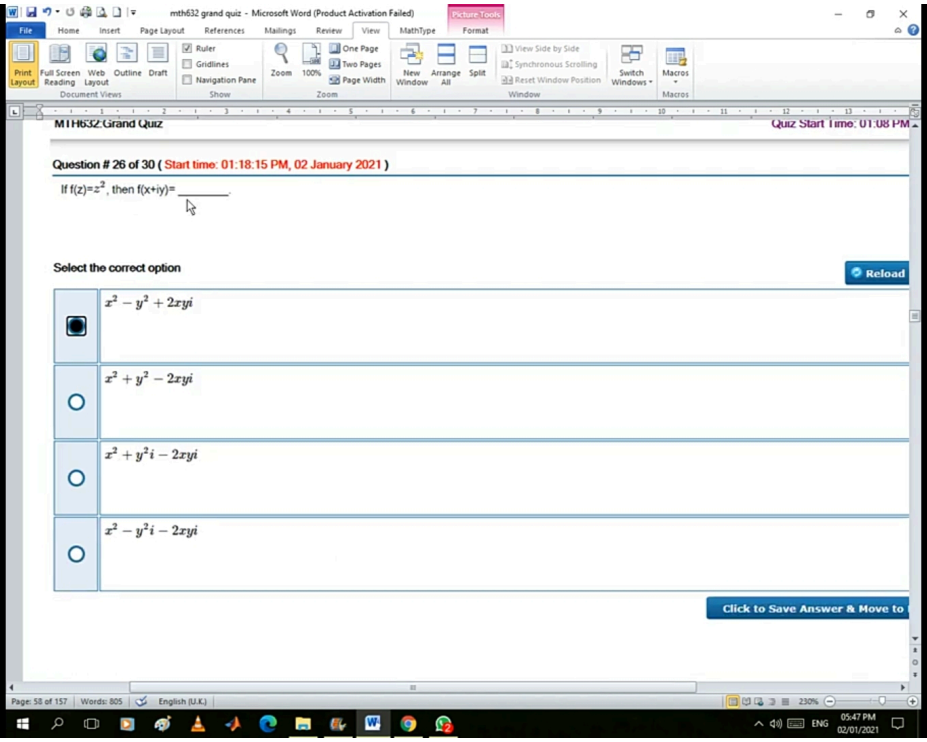
02/01/2021


mth632 grand quiz - Microsoft Word (Product Activation Failed)
Question # 25 of 30 (Start time: 01:16:51 PM, 02 January 2021)
If -8i = 8 exp[i (-π/2+2kπ)], then the root of
$(-8i)^{1/3}$
for k=1 is _____.
Select the correct option
Reload
3i
-3i
2i
-2i
Click to Save Answer & Move to
Page: 57 of 157
Words: 805
English (U.K.)
230%
ENG
05:46 PM
02/01/2021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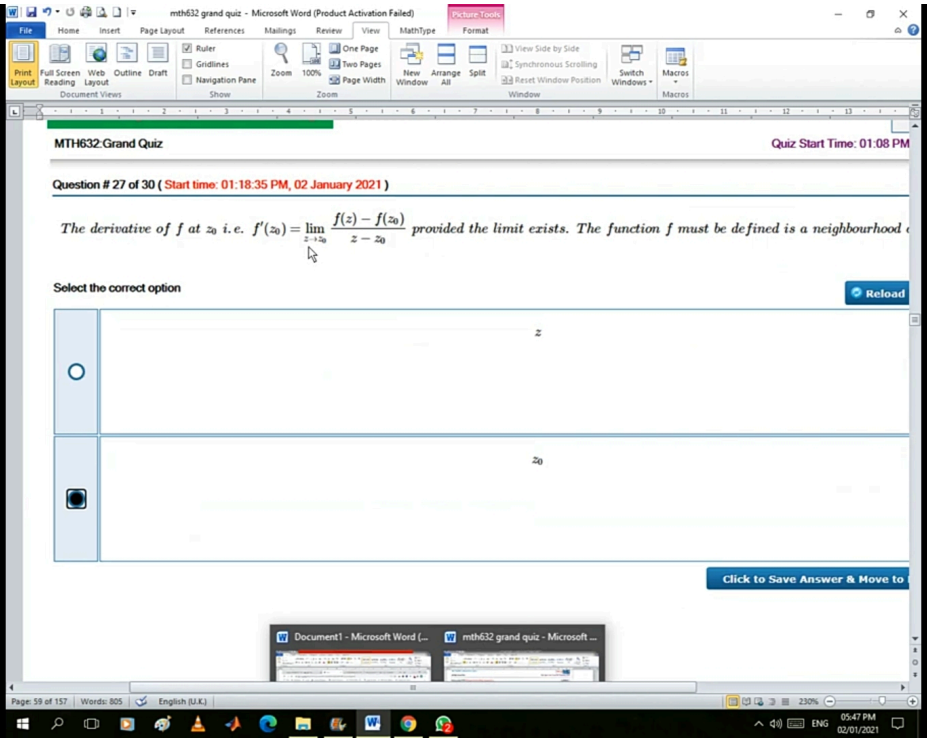
MTH632 Grand Quiz
Quiz Start Time: 01:08 PM
Question # 26 of 30 (Start time: 01:18:15 PM, 02 January 2021)
If f(z)=z^2, then f(x+iy)= _____.
Select the correct option
Reload
$x^2 - y^2 + 2xyi$
$x^2 + y^2 - 2xyi$
$x^2 + y^2 i - 2xyi$
$x^2 - y^2 i - 2xyi$
Click to Save Answer & Move to
Page: 58 of 157
Words: 805
English (U.K.)
230%
05:47 PM
02/01/2021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MTH632:Grand Quiz
Quiz Start Time: 01:08 PM
Question # 27 of 30 (Start time: 01:18:35 PM, 02 January 2021)
The derivative of f at z_0 i.e. $f'(z_0) = \lim_{z \to z_0} \frac{f(z) - f(z_0)}{z - z_0}$ provided the limit exists. The function f must be defined is a neighbourhood
Select the correct option
Reload
z
z_0
Click to Save Answer & Move to
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mth632 grand quiz - Microsoft ...
Page: 59 of 157
Words: 805
English (U.K.)
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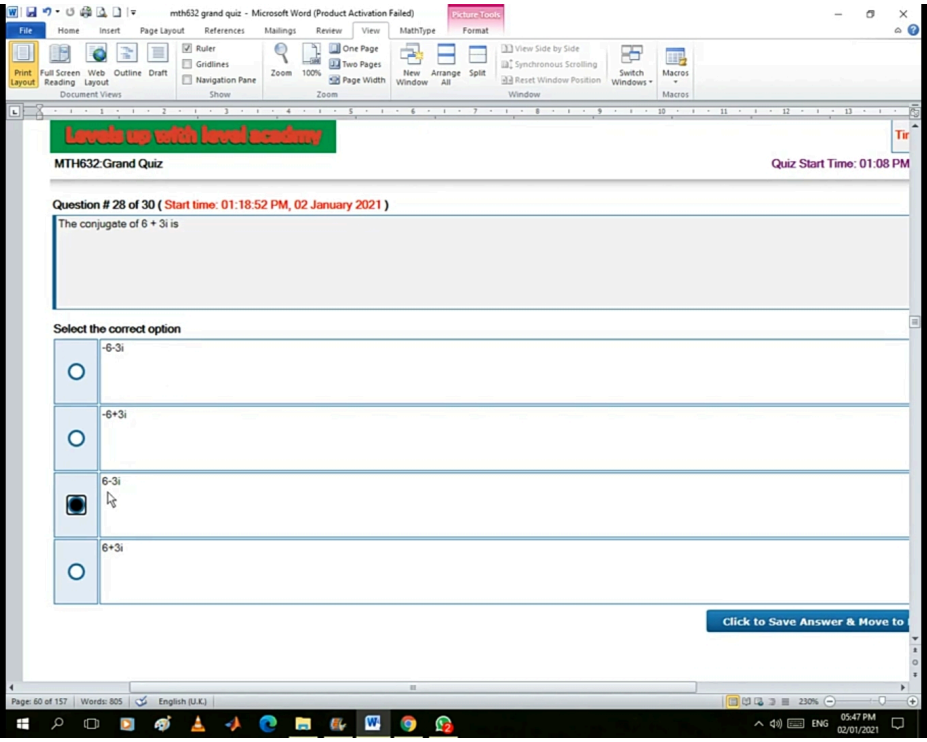
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Levels up with level academy
MTH632:Grand Quiz
Quiz Start Time: 01:08 PM
Question # 28 of 30 (Start time: 01:18:52 PM, 02 January 2021)
The conjugate of 6 + 3i is
Select the correct option
-6-3i
-6+3i
6-3i
6+3i
Click to Save Answer & Move to
Page: 60 of 157
Words: 805
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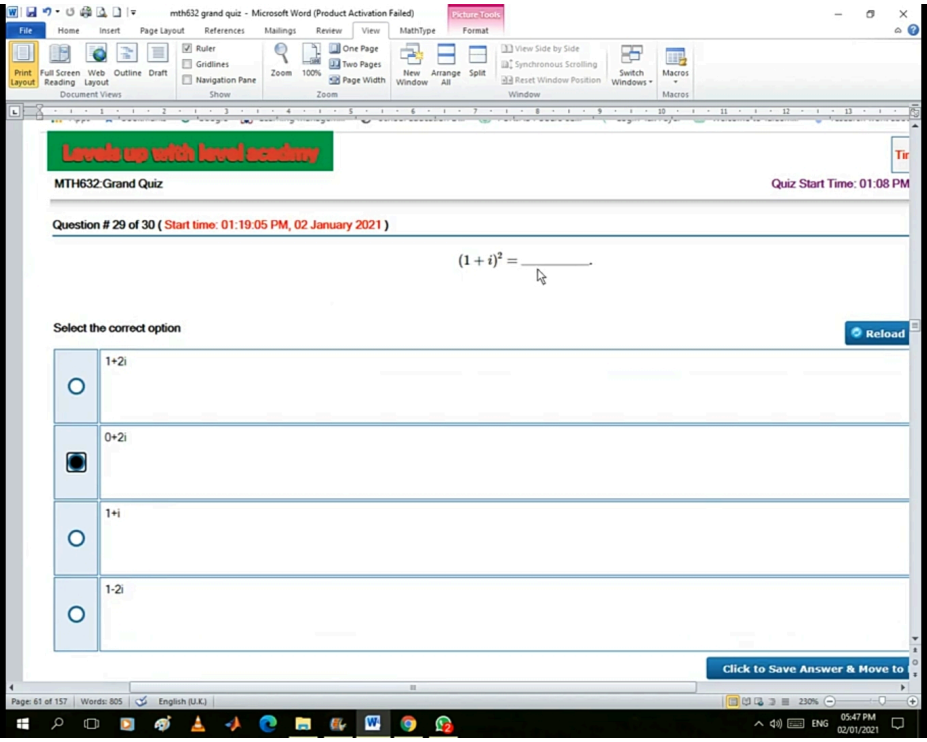
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MTH632:Grand Quiz
Quiz Start Time: 01:08 PM
Question # 29 of 30 (Start time: 01:19:05 PM, 02 January 2021)
$(1+i)^2 =$ _____.
Select the correct option
Reload
1+2i
0+2i
1+i
1-2i
Click to Save Answer & Move to
Page: 61 of 157
Words: 805
English (U.K.)
05:47 PM
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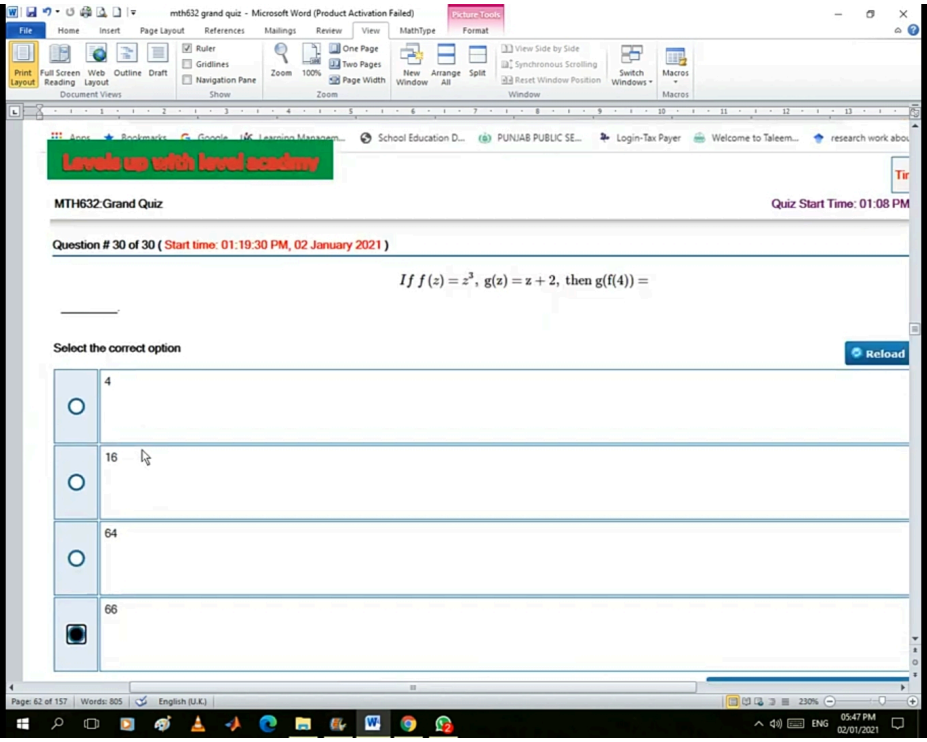
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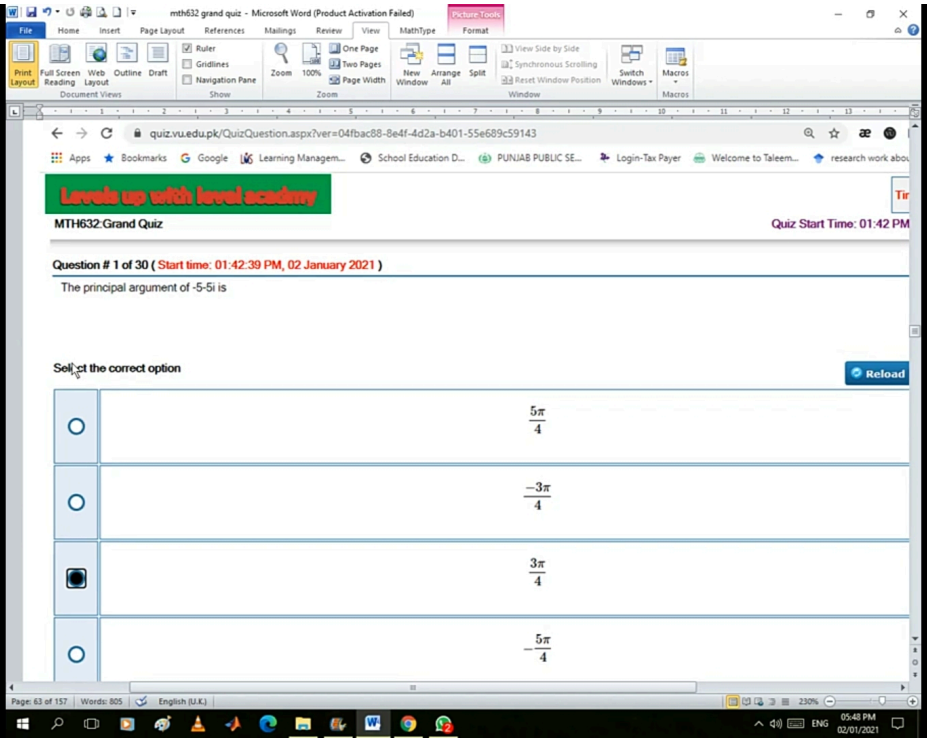
MTH632:Grand Quiz
Quiz Start Time: 01:08 PM
Question # 30 of 30 (Start time: 01:19:30 PM, 02 January 2021)
If f(z) = z³, g(z) = z + 2, then g(f(4)) =
Select the correct option
Reload
4
16
64
66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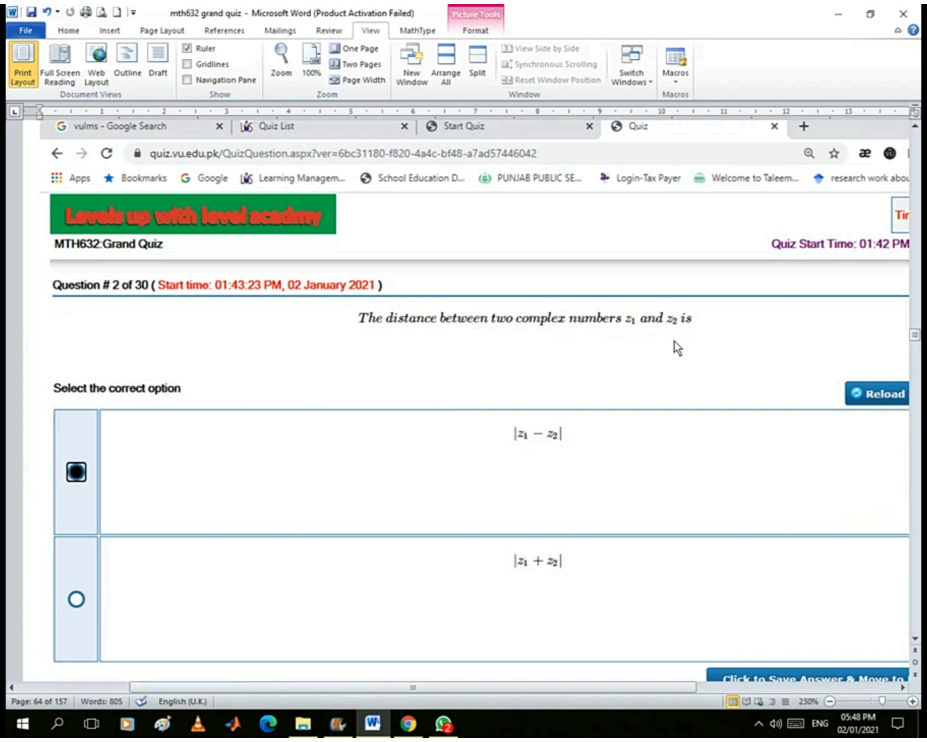
MTH632:Grand Quiz
Quiz Start Time: 01:42 PM
Question # 1 of 30 (Start time: 01:42:39 PM, 02 January 2021)
The principal argument of -5-5i is
Select the correct option
Reload
$\frac{5\pi}{4}$
$\frac{-3\pi}{4}$
$\frac{3\pi}{4}$
$-\frac{5\pi}{4}$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MTH632:Grand Quiz
Quiz Start Time: 01:42 PM
Question # 2 of 30 (Start time: 01:43:23 PM, 02 January 2021)
The distance between two complex numbers z_1 and z_2 is
Select the correct option
Reload
$|z_1 - z_2|$
$|z_1 + z_2|$
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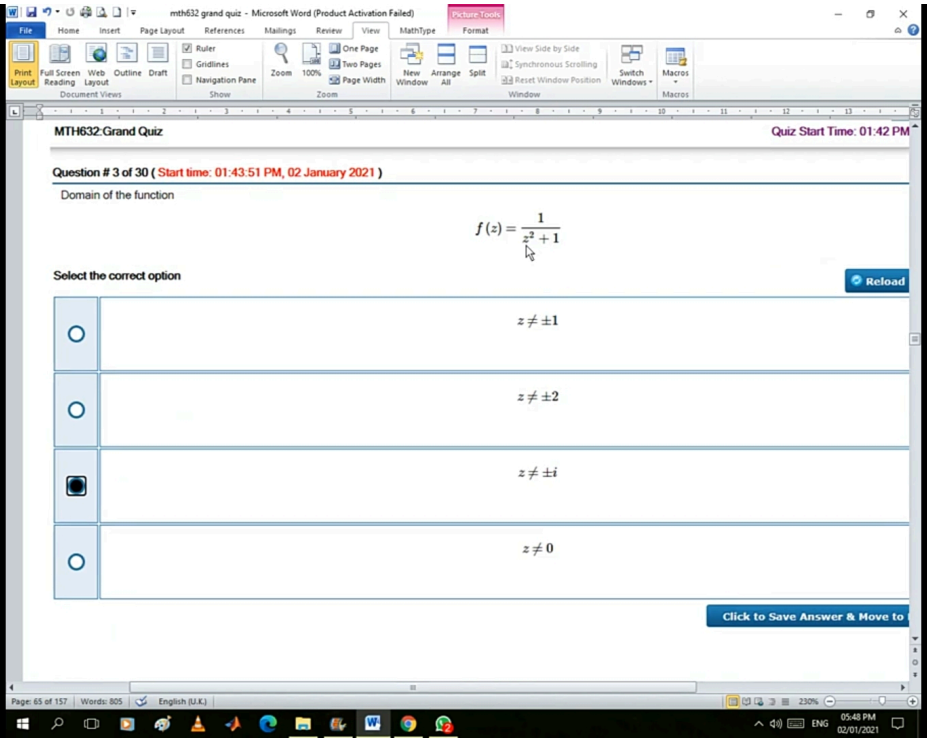
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Quiz Start Time: 01:42 PM
Question # 3 of 30 (Start time: 01:43:51 PM, 02 January 2021)
Domain of the function
$f(z) = \frac{1}{z^2+1}$
Select the correct option
Reload
$z \neq \pm 1$
$z \neq \pm 2$
$z \neq \pm i$
$z \neq 0$
Click to Save Answer & Move to
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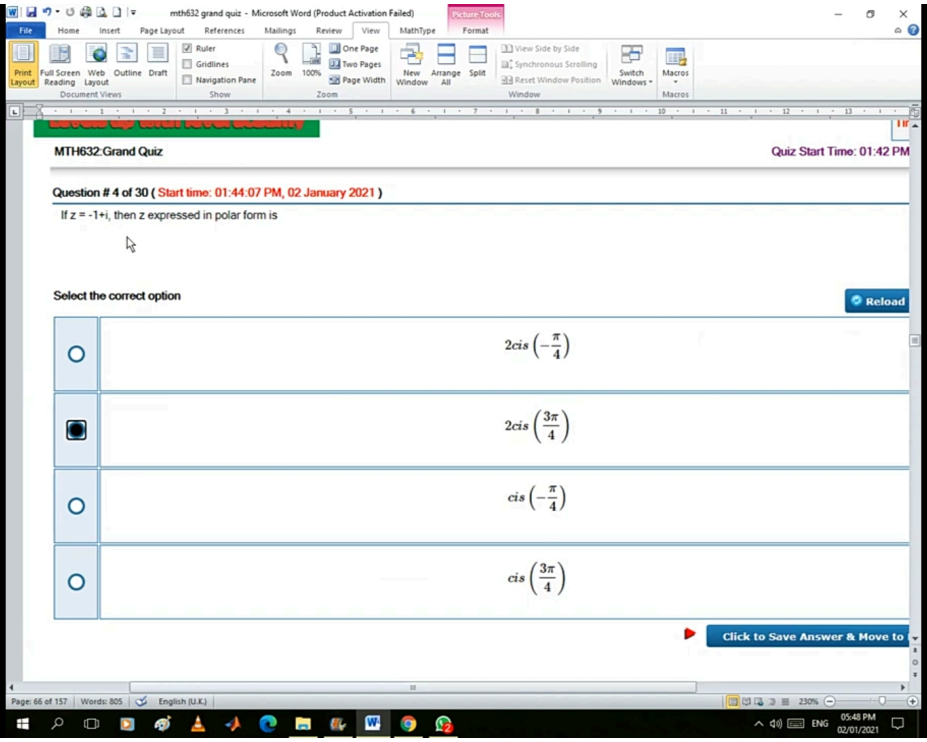
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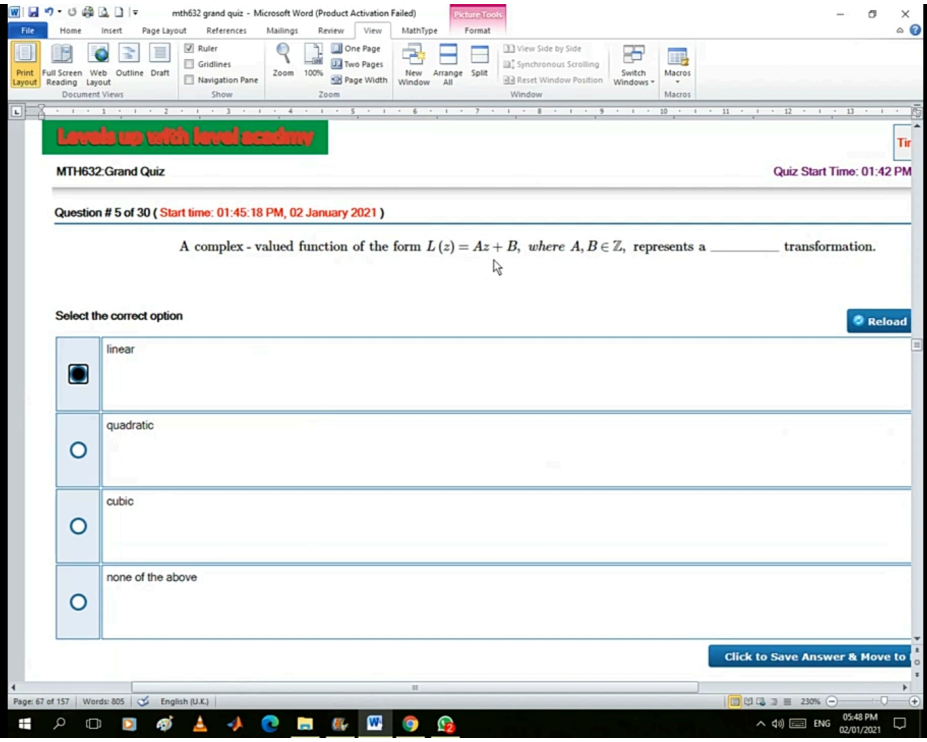
Quiz Start Time: 01:42 PM
Question # 4 of 30 (Start time: 01:44:07 PM, 02 January 2021)
If z = -1+i, then z expressed in polar form is
Select the correct option
Reload
$2cis\left(-\frac{\pi}{4}\right)$
$2cis\left(\frac{3\pi}{4}\right)$
$cis\left(-\frac{\pi}{4}\right)$
$cis\left(\frac{3\pi}{4}\right)$
Click to Save Answer & Move to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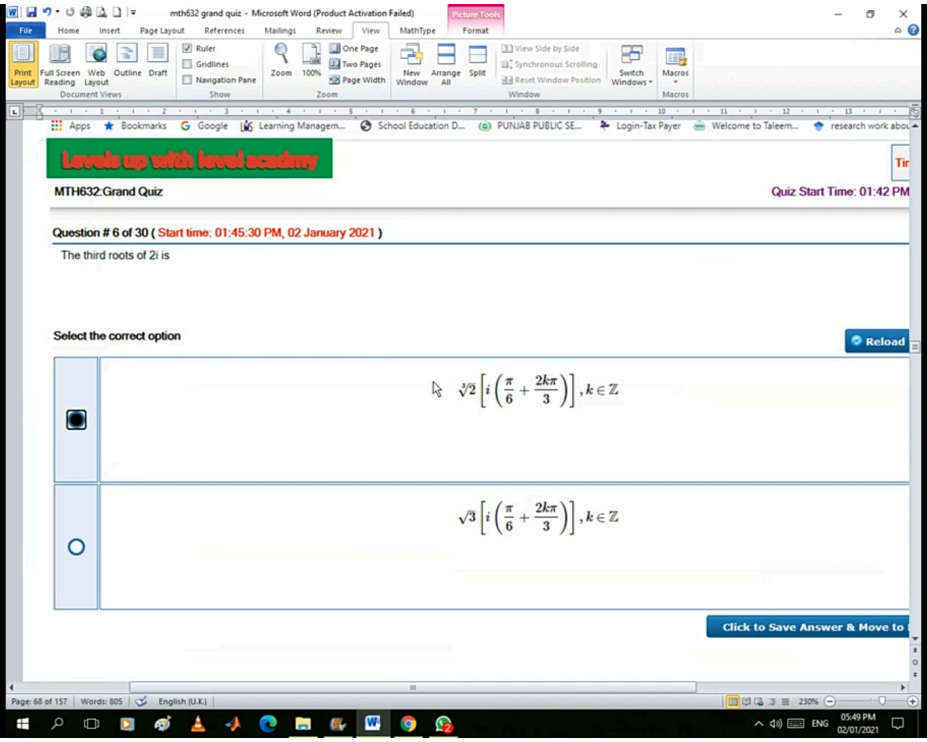
MTH632:Grand Quiz
Quiz Start Time: 01:42 PM
Question # 5 of 30 (Start time: 01:45:18 PM, 02 January 2021)
A complex - valued function of the form $L(z) = Az + B$, where $A, B \in \mathbb{Z}$, represents a _____ transformation.
Select the correct option
Reload
linear
quadratic
cubic
none of the above
Click to Save Answer & Move to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MTH632:Grand Quiz
Quiz Start Time: 01:42 PM
Question # 6 of 30 (Start time: 01:45:30 PM, 02 January 2021)
The third roots of 2i is
Select the correct option
Reload
$\sqrt[3]{2}\left[i\left(\frac{\pi}{6}+\frac{2k\pi}{3}\right)\right], k \in \mathbb{Z}$
$\sqrt{3}\left[i\left(\frac{\pi}{6}+\frac{2k\pi}{3}\right)\right], k \in \mathbb{Z}$
Click to Save Answer & Move to
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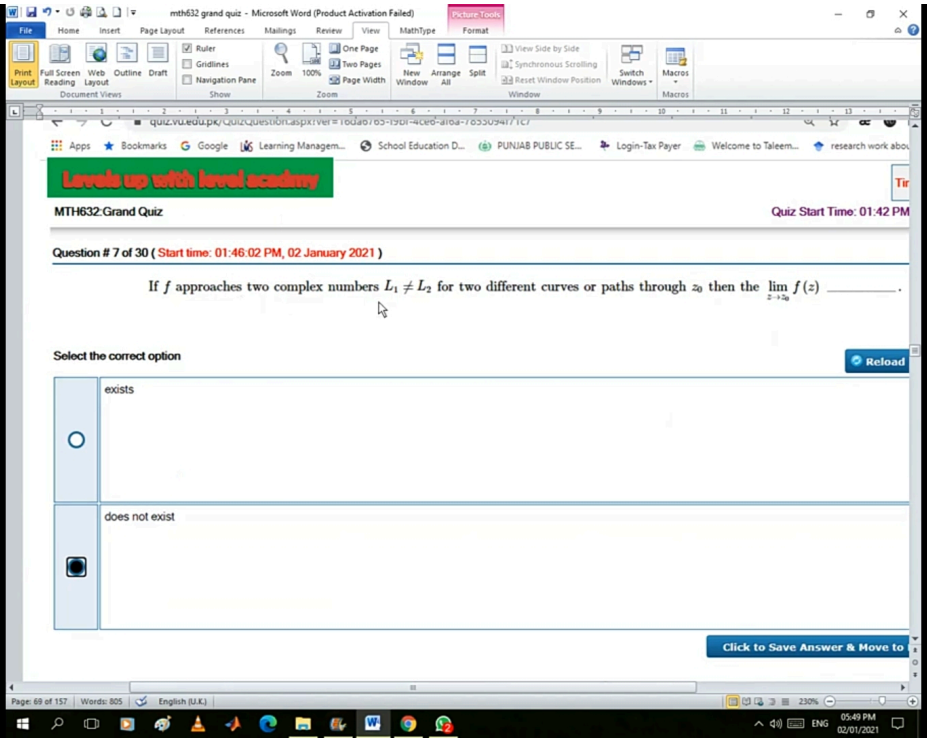
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Quiz Start Time: 01:42 PM
Question # 7 of 30 (Start time: 01:46:02 PM, 02 January 2021)
If f approaches two complex numbers $L_1 \neq L_2$ for two different curves or paths through z_0 then the $\lim_{z \to z_0} f(z)$ _____.
Select the correct option
Reload
exists
does not exist
Click to Save Answer & Move to
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English (U.K.)
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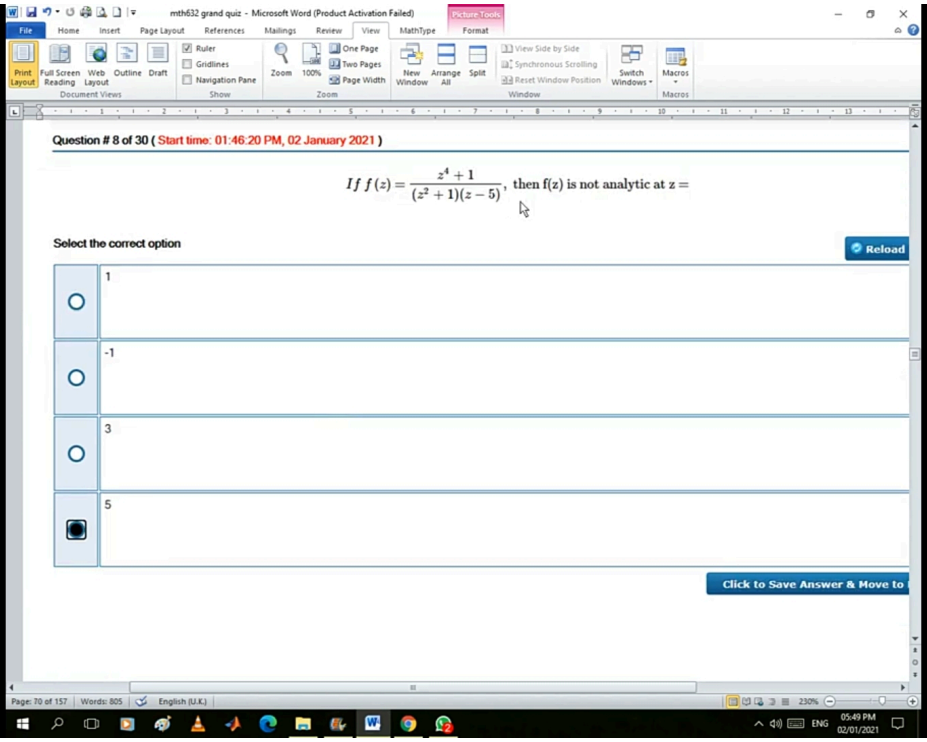
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Question # 8 of 30 (Start time: 01:46:20 PM, 02 January 2021)
$If\ f(z) = \frac{z^4+1}{(z^2+1)(z-5)}$, then f(z) is not analytic at z =
Select the correct option
Reload
1
-1
3
5
Click to Save Answer & Move to
Page: 70 of 157
Words: 805
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ENG
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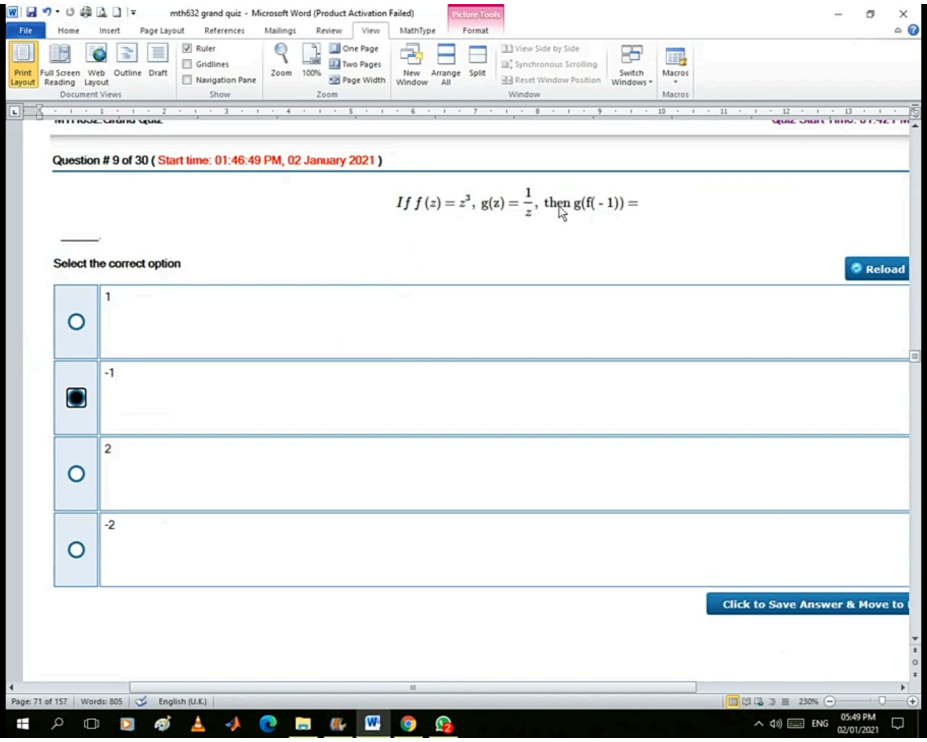
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Question # 9 of 30 (Start time: 01:46:49 PM, 02 January 2021)
If $f(z) = z^3$, $g(z) = \frac{1}{z}$, then $g(f(-1)) =$
Select the correct option
Reload
1
-1
2
-2
Click to Save Answer & Move to
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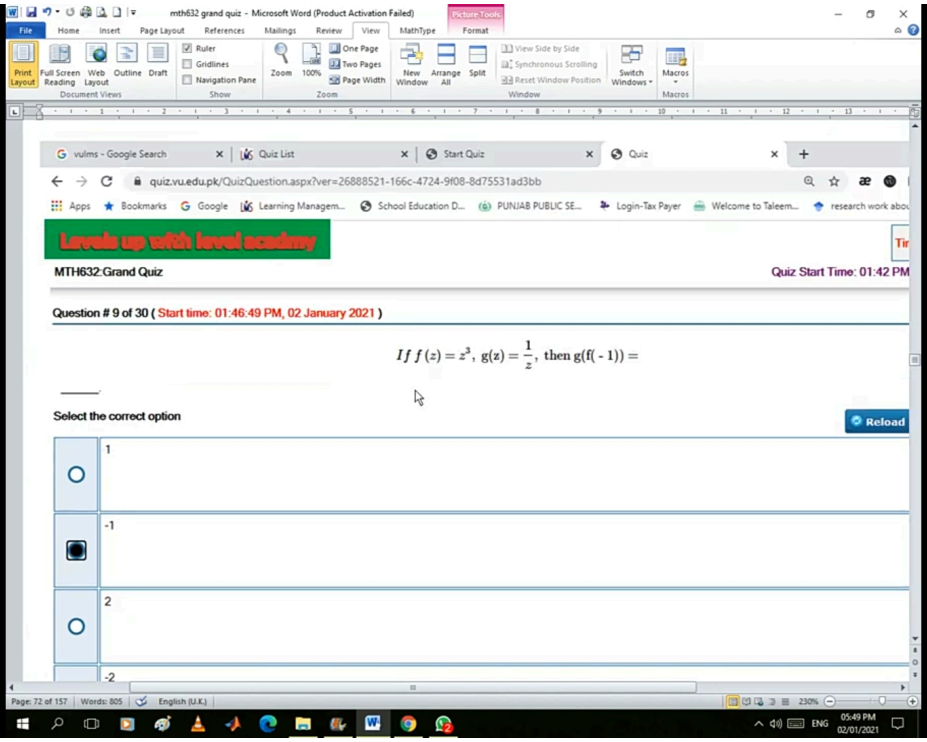
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MTH632:Grand Quiz
Quiz Start Time: 01:42 PM
Question # 9 of 30 (Start time: 01:46:49 PM, 02 January 2021)
If f(z) = z^3, g(z) = 1/z, then g(f(- 1)) =
Select the correct option
Reload
1
-1
2
-2
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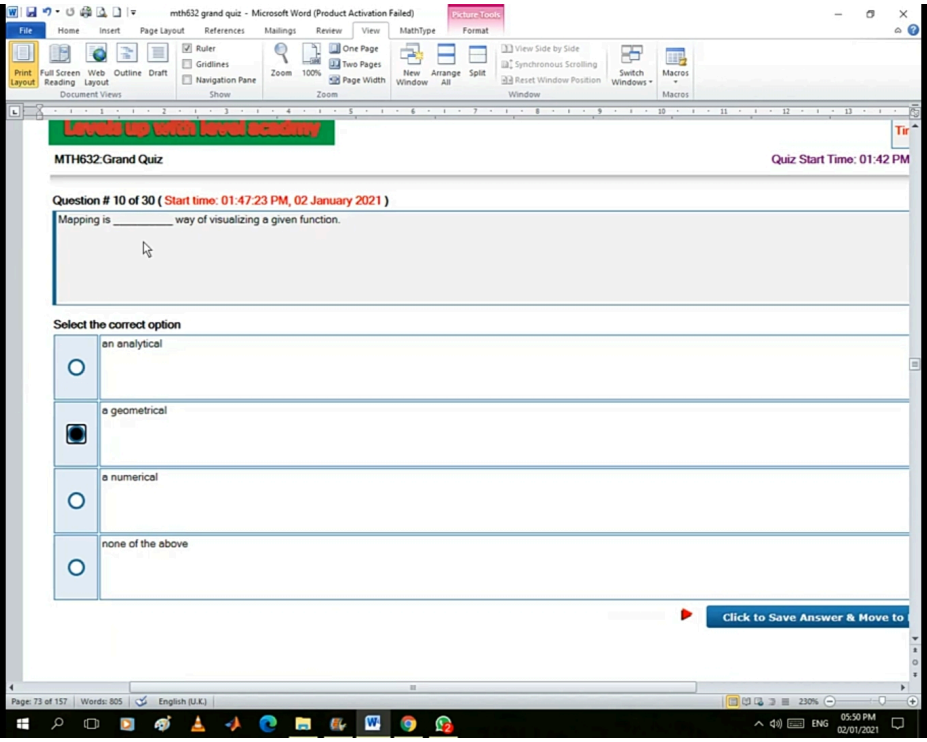
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MTH632:Grand Quiz
Quiz Start Time: 01:42 PM
Question # 10 of 30 (Start time: 01:47:23 PM, 02 January 2021)
Mapping is _____ way of visualizing a given function.
Select the correct option
an analytical
a geometrical
a numerical
none of the above
Click to Save Answer & Move to
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Words: 805
English (U.K.)
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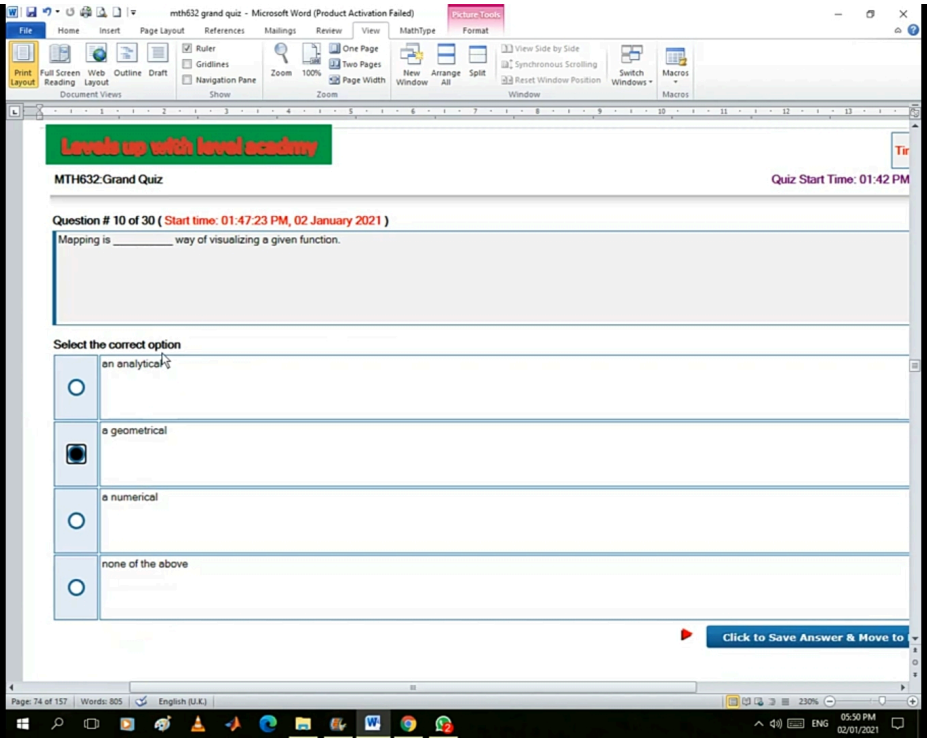
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Quiz Start Time: 01:42 PM
Question # 10 of 30 (Start time: 01:47:23 PM, 02 January 2021)
Mapping is _____ way of visualizing a given function.
Select the correct option
an analytical
a geometrical
a numerical
none of the above
Click to Save Answer & Move to
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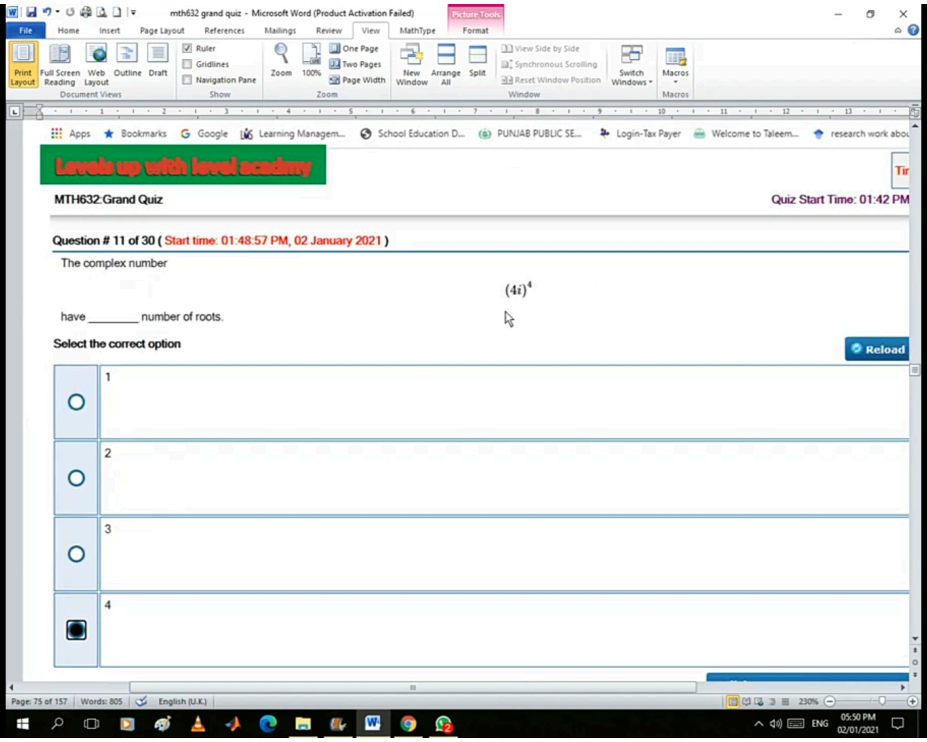
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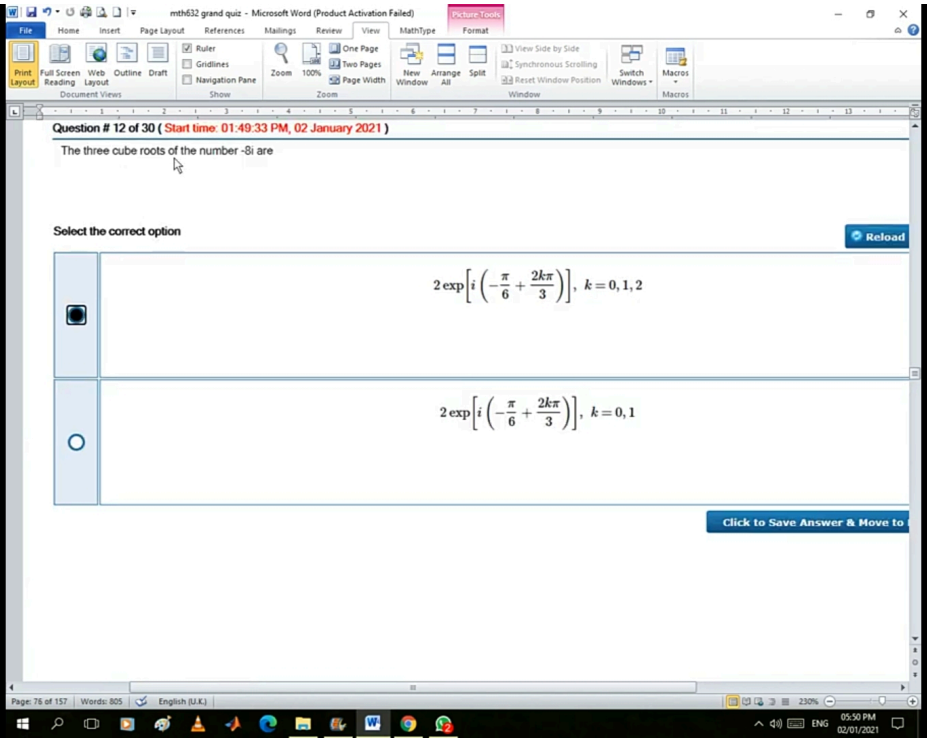
Quiz Start Time: 01:42 PM
Question # 11 of 30 (Start time: 01:48:57 PM, 02 January 2021)
The complex number
$(4i)^4$
have _____ number of roots.
Select the correct option
Reload
1
2
3
4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Question # 12 of 30 (Start time: 01:49:33 PM, 02 January 2021)
The three cube roots of the number -8i are
Select the correct option
Reload
$2\exp\left[i\left(-\frac{\pi}{6}+\frac{2k\pi}{3}\right)\right],\ k=0,1,2$
$2\exp\left[i\left(-\frac{\pi}{6}+\frac{2k\pi}{3}\right)\right],\ k=0,1$
Click to Save Answer & Move to
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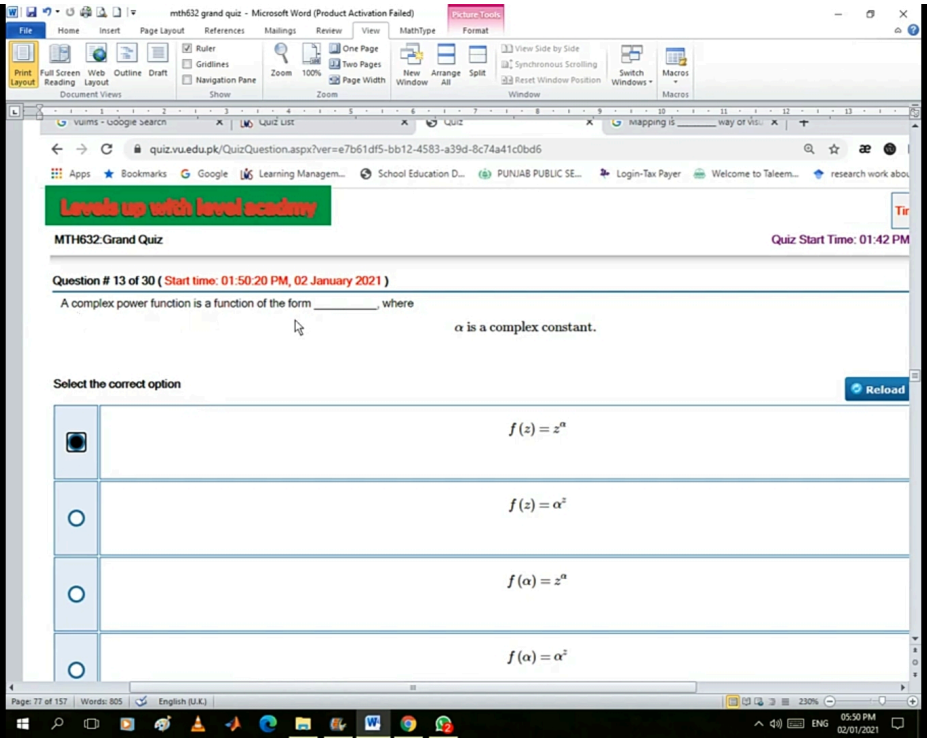
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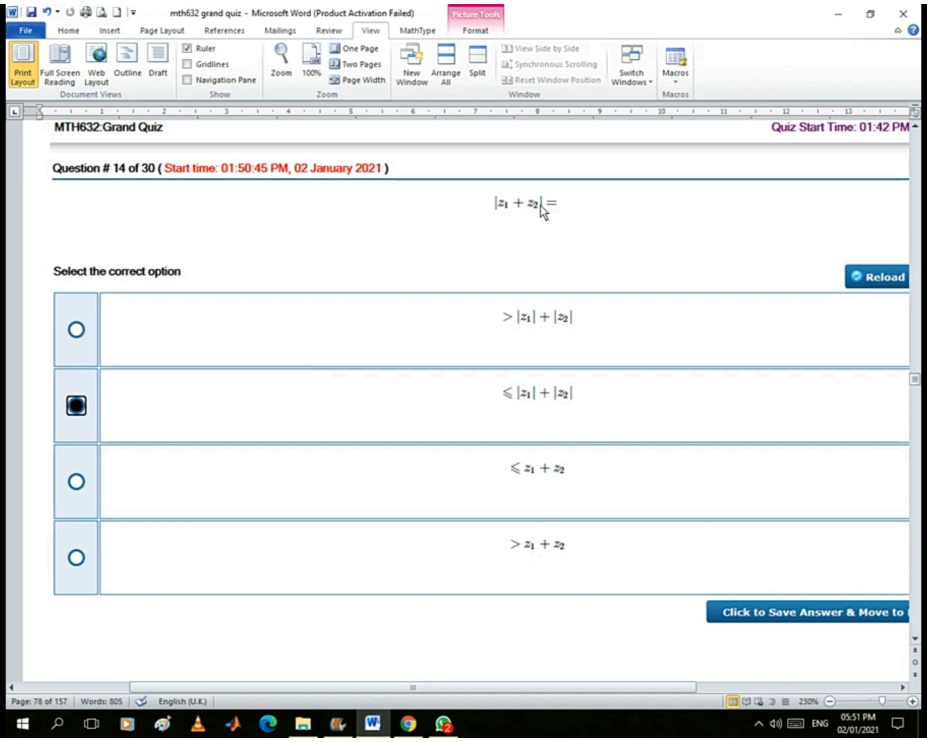
Quiz Start Time: 01:42 PM
Question # 13 of 30 (Start time: 01:50:20 PM, 02 January 2021)
A complex power function is a function of the form _____, where
α is a complex constant.
Select the correct option
Reload
$f(z) = z^{\alpha}$
$f(z) = \alpha^{z}$
$f(\alpha) = z^{\alpha}$
$f(\alpha) = \alpha^{z}$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Quiz Start Time: 01:42 PM
Question # 14 of 30 (Start time: 01:50:45 PM, 02 January 2021)
$|z_1 + z_2| =$
Select the correct option
Reload
$> |z_1| + |z_2|$
$\leqslant |z_1| + |z_2|$
$\leqslant z_1 + z_2$
$> z_1 + z_2$
Click to Save Answer & Move to
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English (U.K.)
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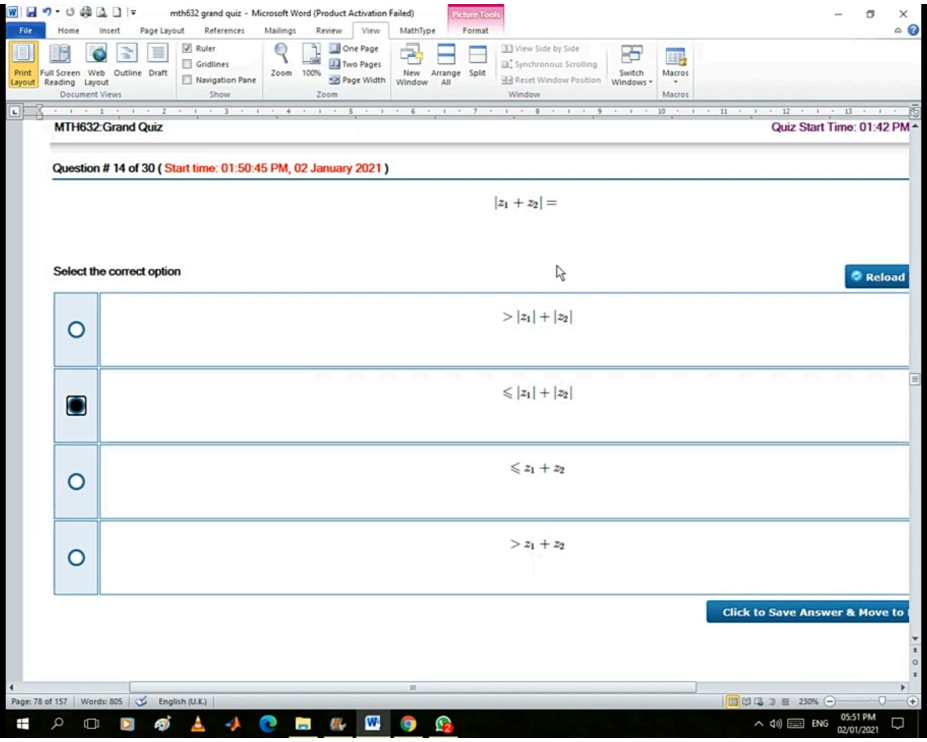
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Quiz Start Time: 01:42 PM
Question # 14 of 30 (Start time: 01:50:45 PM, 02 January 2021)
$|z_1 + z_2| =$
Select the correct option
Reload
$> |z_1| + |z_2|$
$\leqslant |z_1| + |z_2|$
$\leqslant z_1 + z_2$
$> z_1 + z_2$
Click to Save Answer & Move to
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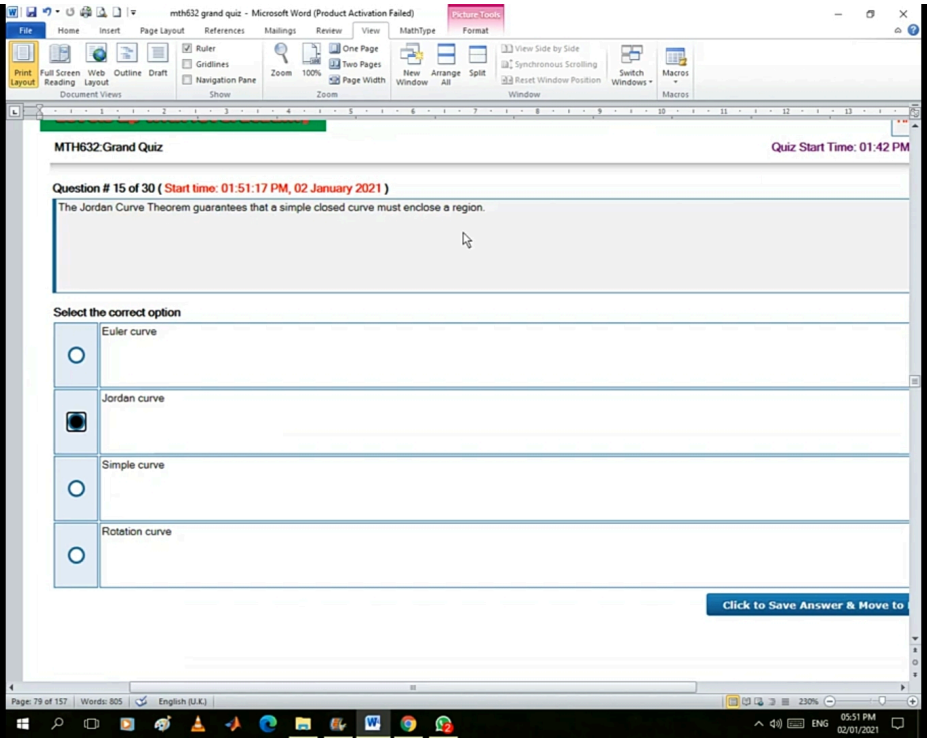
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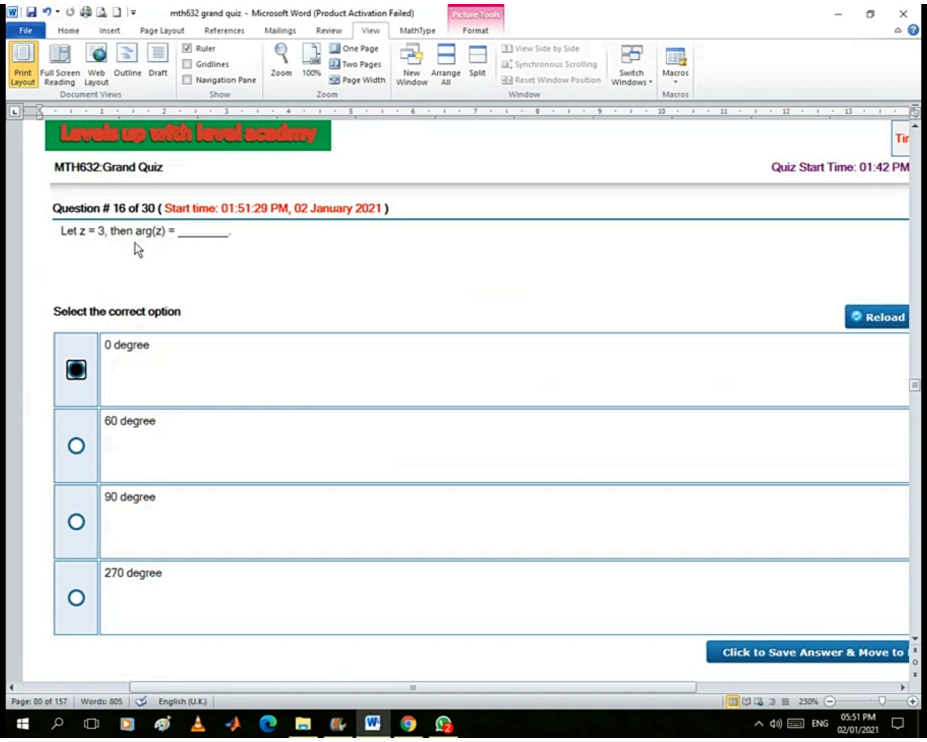
Quiz Start Time: 01:42 PM
Question # 15 of 30 (Start time: 01:51:17 PM, 02 January 2021)
The Jordan Curve Theorem guarantees that a simple closed curve must enclose a region.
Select the correct option
Euler curve
Jordan curve
Simple curve
Rotation curve
Click to Save Answer & Move to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Quiz Start Time: 01:42 PM
Question # 16 of 30 (Start time: 01:51:29 PM, 02 January 2021)
Let z = 3, then arg(z) = _____.
Select the correct option
Reload
0 degree
60 degree
90 degree
270 degree
Click to Save Answer & Move to
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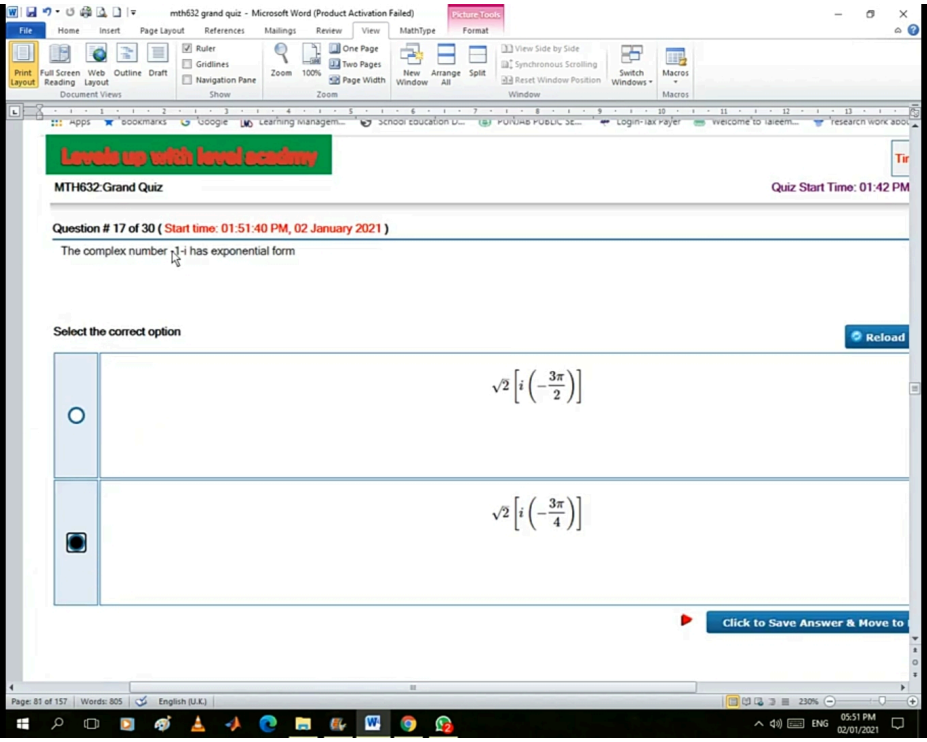
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MTH632:Grand Quiz
Quiz Start Time: 01:42 PM
Question # 17 of 30 (Start time: 01:51:40 PM, 02 January 2021)
The complex number 1-i has exponential form
Select the correct option
Reload
$\sqrt{2}\left[i\left(-\frac{3\pi}{2}\right)\right]$
$\sqrt{2}\left[i\left(-\frac{3\pi}{4}\right)\right]$
Click to Save Answer & Move to
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English (U.K.)
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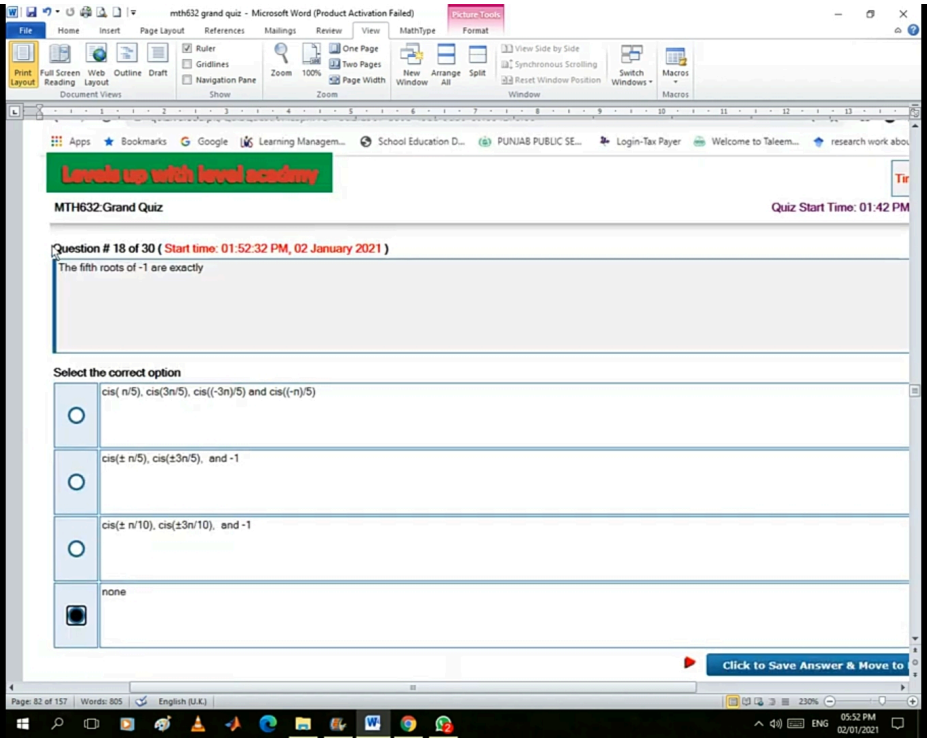
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Question # 18 of 30 (Start time: 01:52:32 PM, 02 January 2021)
The fifth roots of -1 are exactly
Select the correct option
cis(π/5), cis(3π/5), cis((-3π)/5) and cis((-π)/5)
cis(± π/5), cis(±3π/5), and -1
cis(± π/10), cis(±3π/10), and -1
none
Click to Save Answer & Move to
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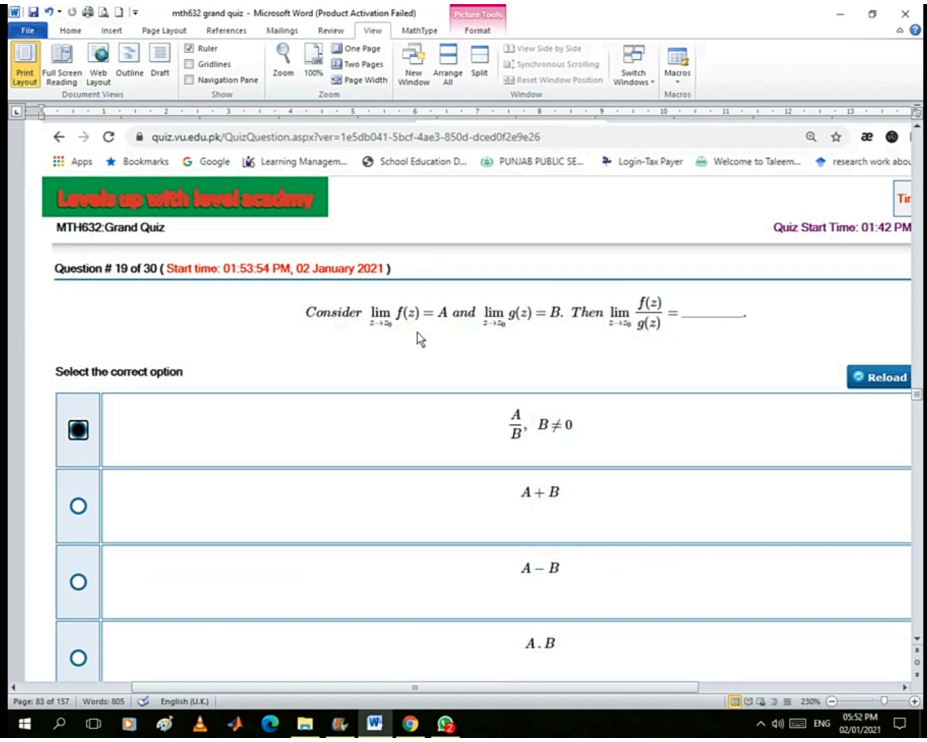
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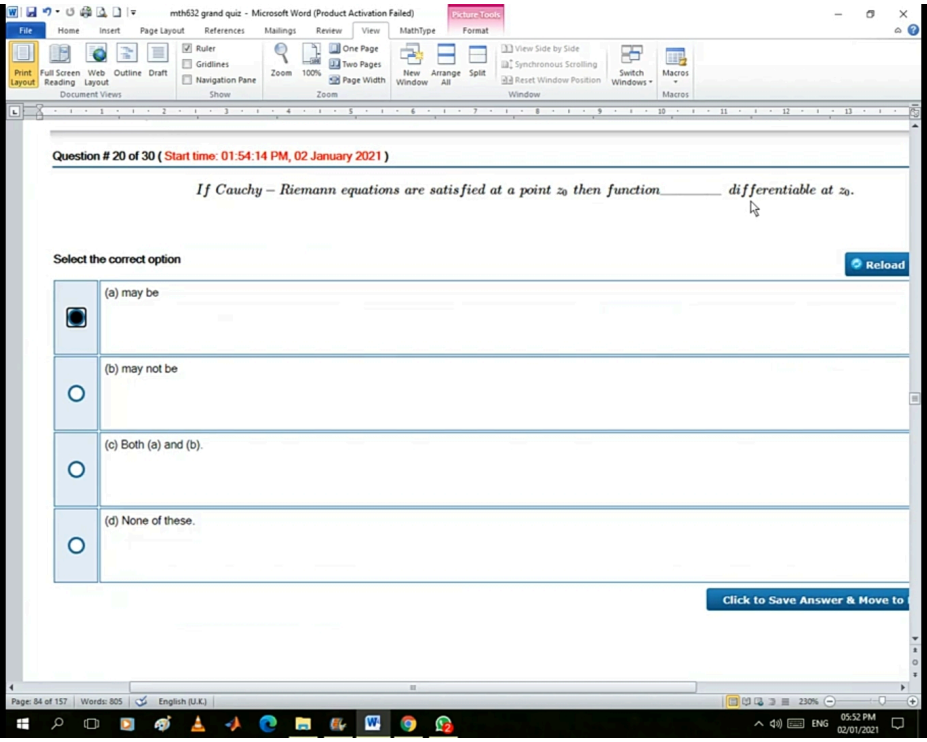
MTH632:Grand Quiz
Quiz Start Time: 01:42 PM
Question # 19 of 30 (Start time: 01:53:54 PM, 02 January 2021)
Consider $\lim_{z \to z_0} f(z) = A$ and $\lim_{z \to z_0} g(z) = B$. Then $\lim_{z \to z_0} \frac{f(z)}{g(z)} =$ _____.
Select the correct option
Reload
$\frac{A}{B},\ B \neq 0$
$A + B$
$A - B$
$A.B$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Question # 20 of 30 (Start time: 01:54:14 PM, 02 January 2021)
If Cauchy – Riemann equations are satisfied at a point z_0 then function_____ differentiable at z_0.
Select the correct option
Reload
(a) may be
(b) may not be
(c) Both (a) and (b).
(d) None of these.
Click to Save Answer & Move to
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Words: 805
English (U.K.)
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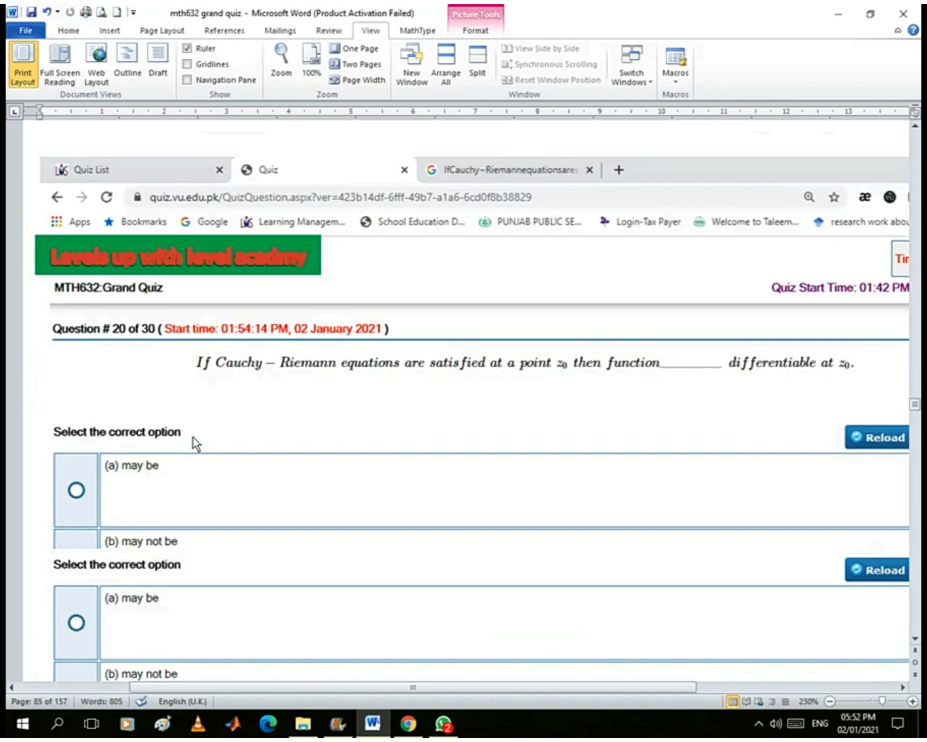
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Quiz Start Time: 01:42 PM
Question # 20 of 30 (Start time: 01:54:14 PM, 02 January 2021)
If Cauchy – Riemann equations are satisfied at a point z_0 then function_____ differentiable at z_0.
Select the correct option
Reload
(a) may be
(b) may not be
Select the correct option
Reload
(a) may be
(b) may not be
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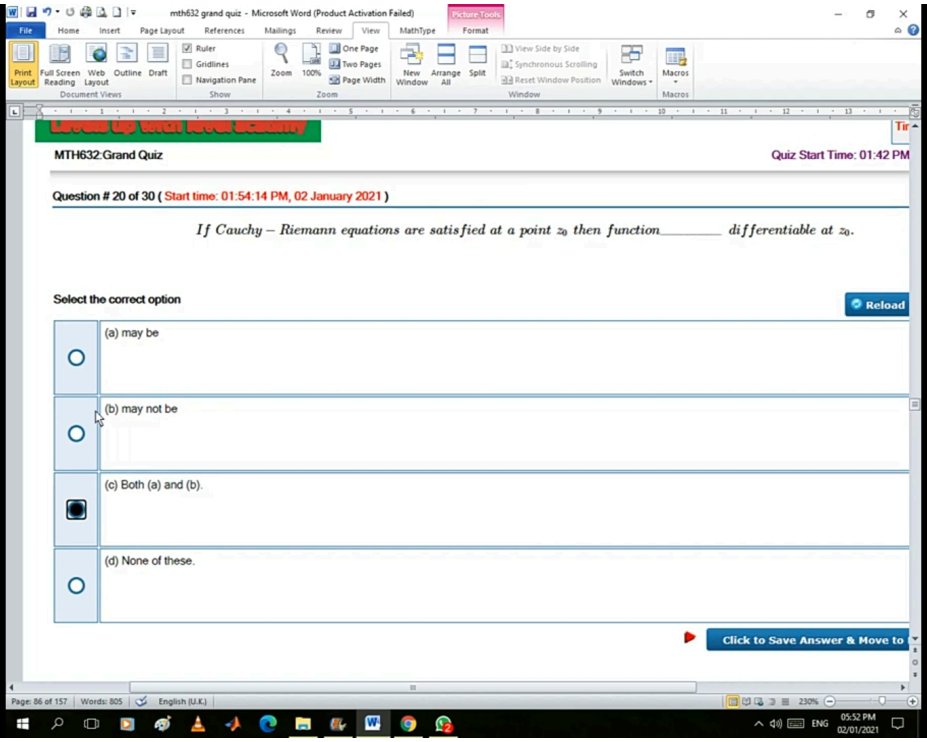
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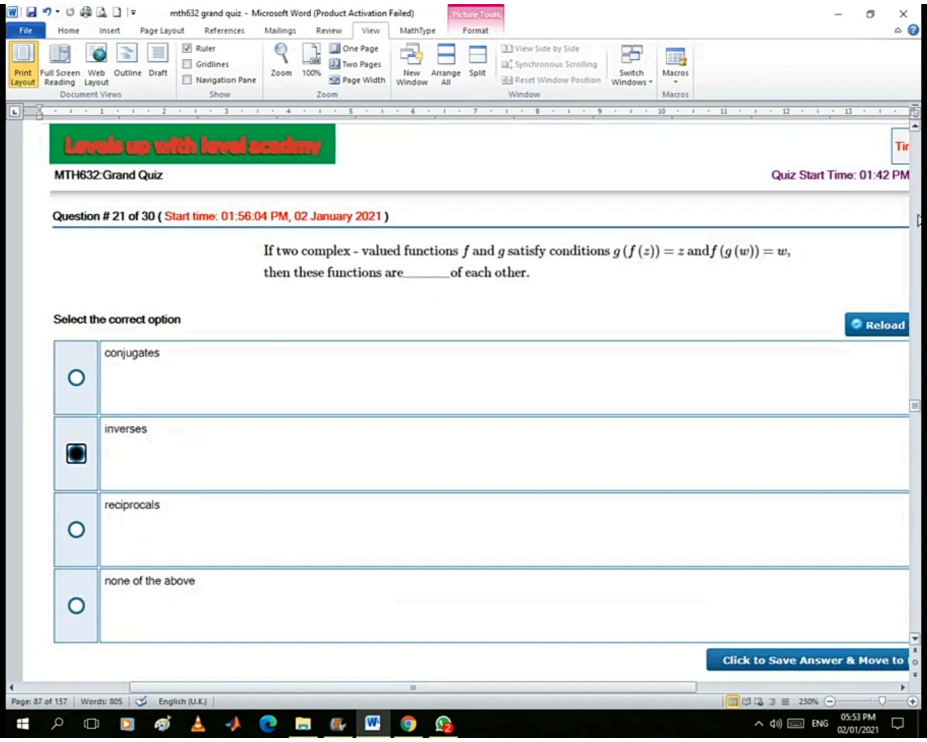
MTH632:Grand Quiz
Quiz Start Time: 01:42 PM
Question # 20 of 30 (Start time: 01:54:14 PM, 02 January 2021)
If Cauchy – Riemann equations are satisfied at a point z_0 then function_____ differentiable at z_0.
Select the correct option
Reload
(a) may be
(b) may not be
(c) Both (a) and (b).
(d) None of these.
Click to Save Answer & Move to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MTH632:Grand Quiz
Quiz Start Time: 01:42 PM
Question # 21 of 30 (Start time: 01:56:04 PM, 02 January 2021)
If two complex - valued functions f and g satisfy conditions g(f(z)) = z and f(g(w)) = w, then these functions are_____of each other.
Select the correct option
Reload
conjugates
inverses
reciprocals
none of the above
Click to Save Answer & Move to
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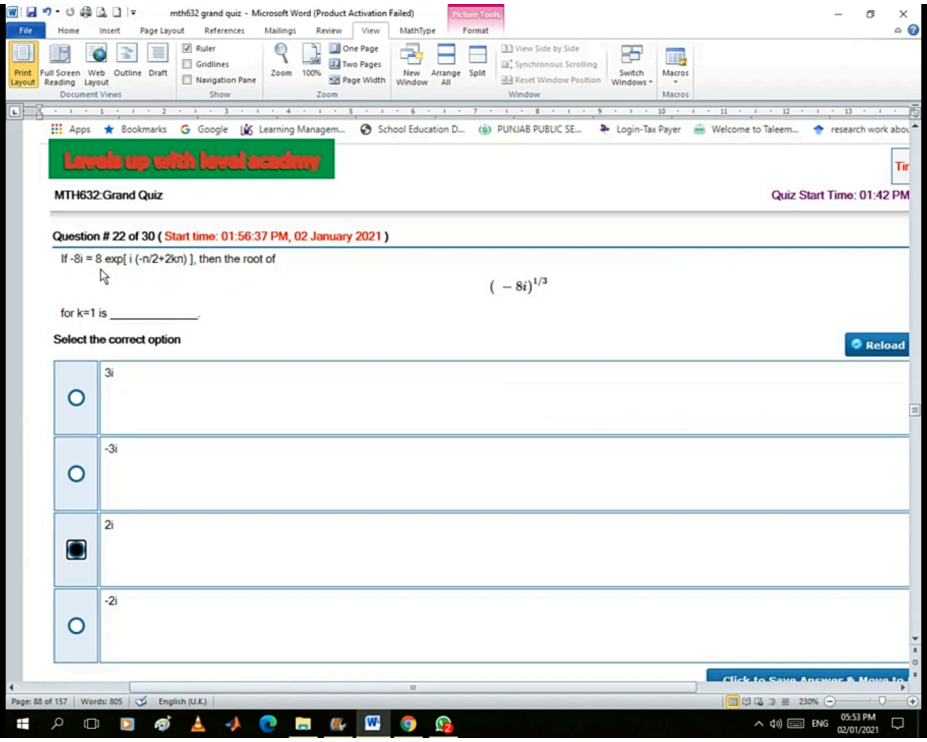
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MTH632:Grand Quiz
Quiz Start Time: 01:42 PM
Question # 22 of 30 (Start time: 01:56:37 PM, 02 January 2021)
If -8i = 8 exp[i (-π/2+2kπ)], then the root of
$(-8i)^{1/3}$
for k=1 is _____.
Select the correct option
Reload
3i
-3i
2i
-2i
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English (U.K.)
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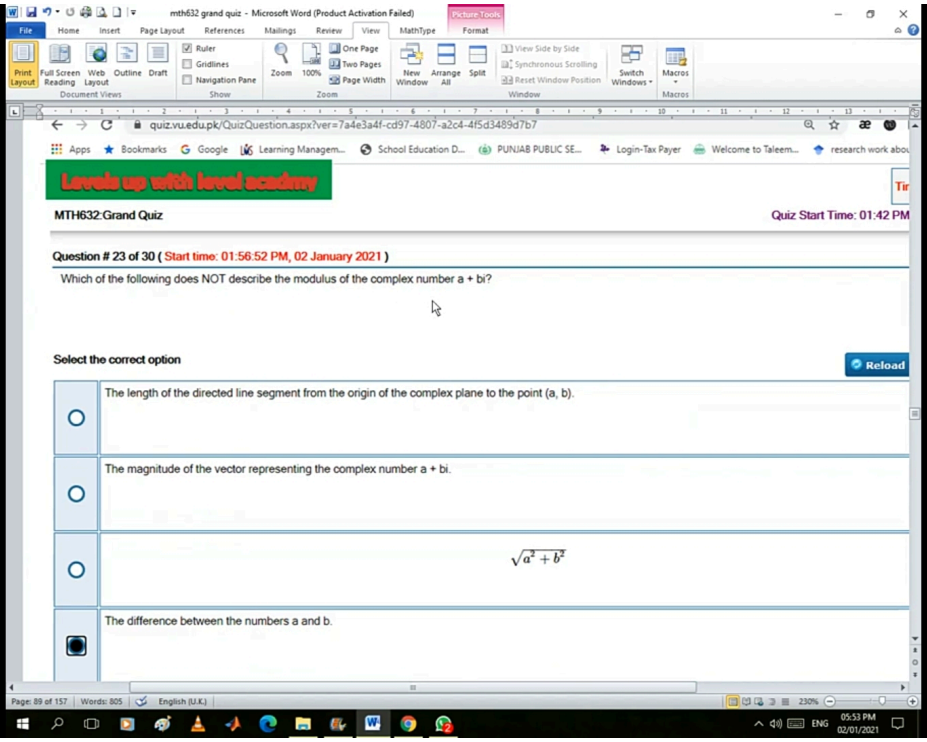
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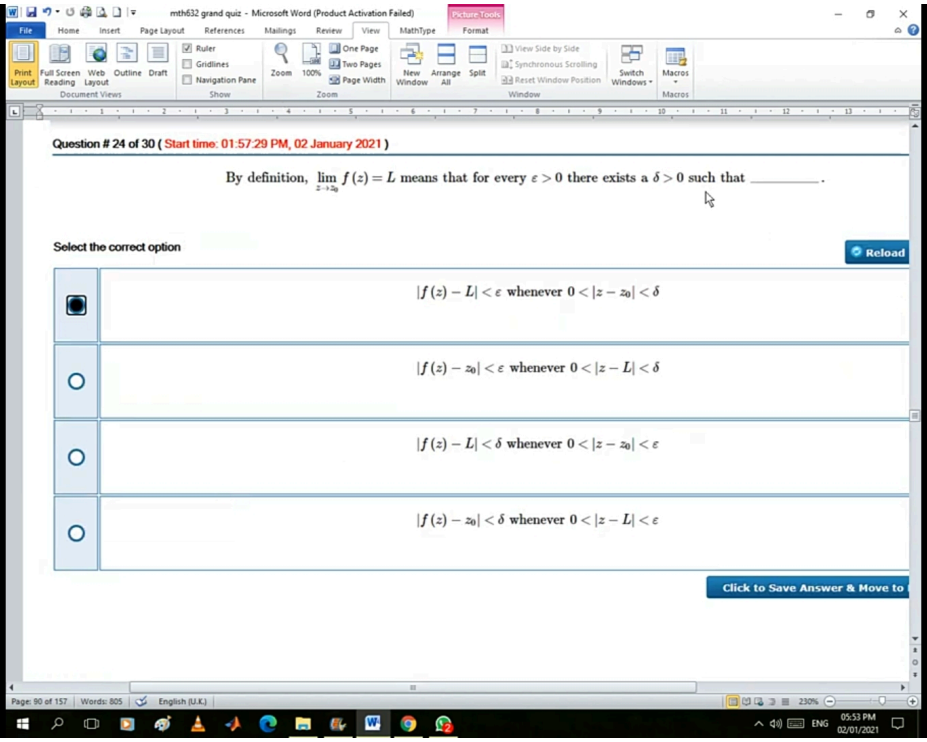
MTH632:Grand Quiz
Quiz Start Time: 01:42 PM
Question # 23 of 30 (Start time: 01:56:52 PM, 02 January 2021)
Which of the following does NOT describe the modulus of the complex number a + bi?
Select the correct option
Reload
The length of the directed line segment from the origin of the complex plane to the point (a, b).
The magnitude of the vector representing the complex number a + bi.
$\sqrt{a^2+b^2}$
The difference between the numbers a and b.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Question # 24 of 30 (Start time: 01:57:29 PM, 02 January 2021)
By definition, $\lim_{z \to z_0} f(z) = L$ means that for every $\varepsilon > 0$ there exists a $\delta > 0$ such that _____.
Select the correct option
Reload
$|f(z) - L| < \varepsilon$ whenever $0 < |z - z_0| < \delta$
$|f(z) - z_0| < \varepsilon$ whenever $0 < |z - L| < \delta$
$|f(z) - L| < \delta$ whenever $0 < |z - z_0| < \varepsilon$
$|f(z) - z_0| < \delta$ whenever $0 < |z - L| < \varepsilon$
Click to Save Answer & Move to
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English (U.K.)
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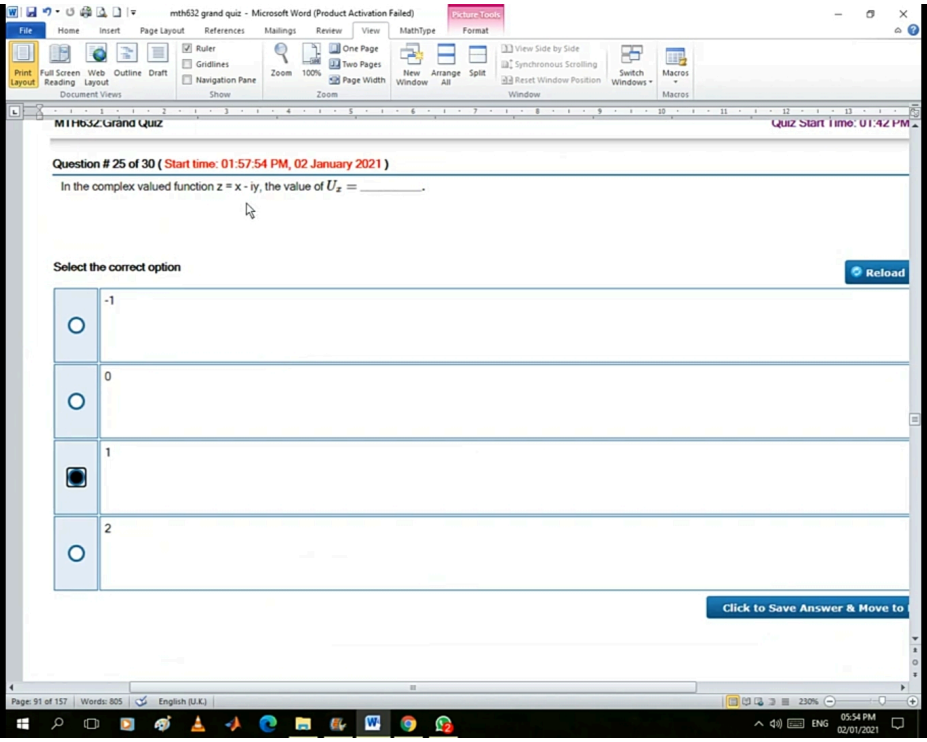
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MTH632 Grand Quiz
Quiz Start Time: 01:42 PM
Question # 25 of 30 (Start time: 01:57:54 PM, 02 January 2021)
In the complex valued function z = x - iy, the value of $U_x =$ _____.
Select the correct option
Reload
-1
0
1
2
Click to Save Answer & Move to
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English (U.K.)
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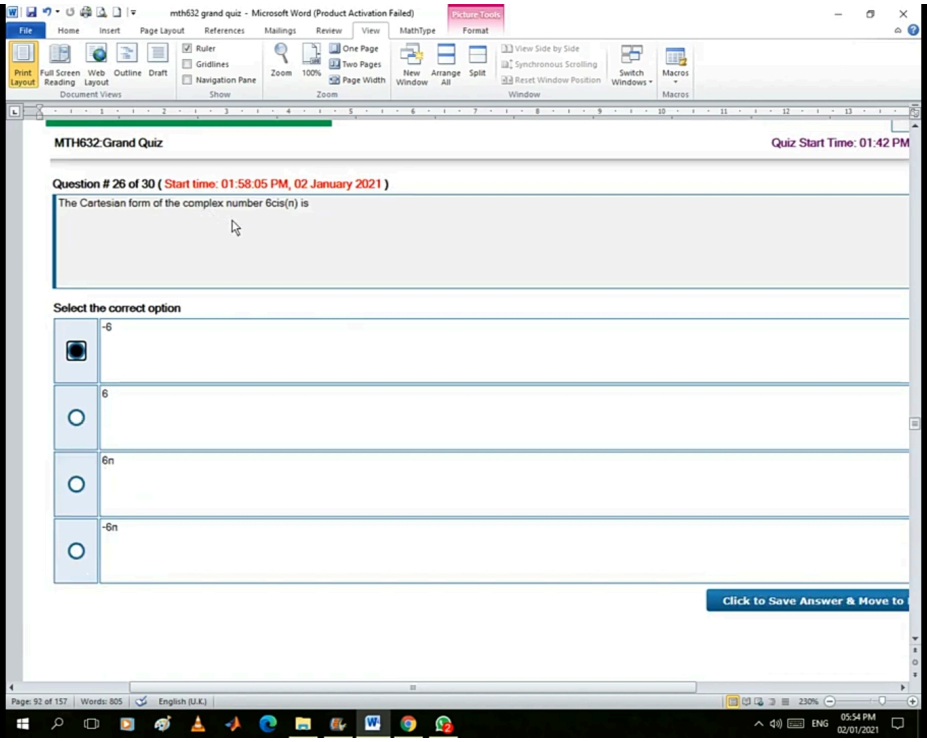
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MTH632:Grand Quiz
Quiz Start Time: 01:42 PM
Question # 26 of 30 (Start time: 01:58:05 PM, 02 January 2021)
The Cartesian form of the complex number 6cis(n) is
Select the correct option
-6
6
6n
-6n
Click to Save Answer & Move to
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English (U.K.)
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ENG
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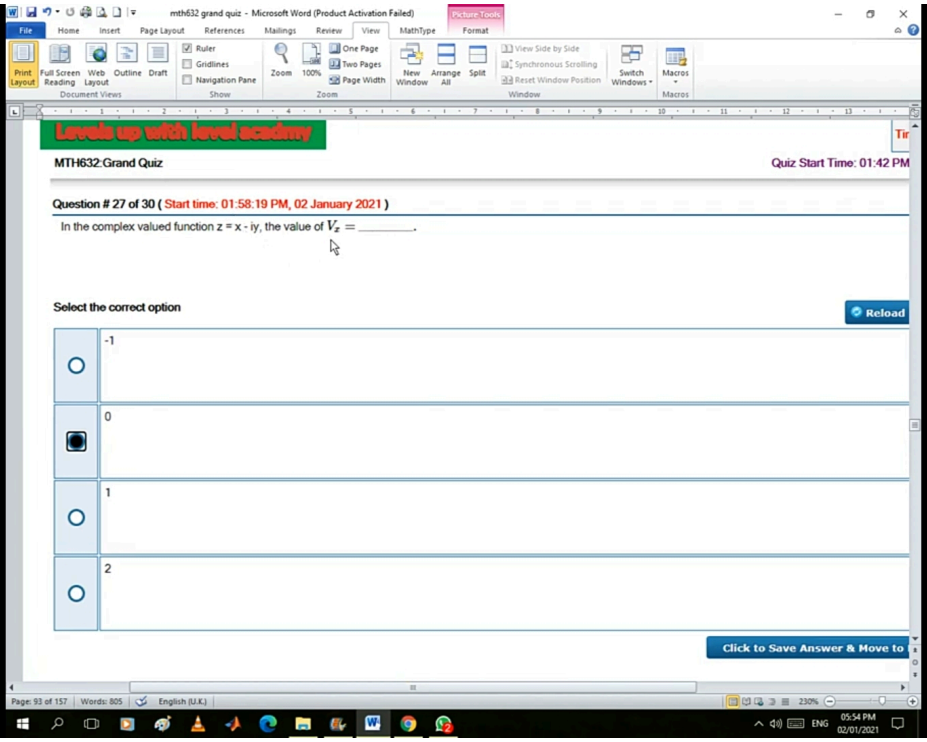
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Quiz Start Time: 01:42 PM
Question # 27 of 30 (Start time: 01:58:19 PM, 02 January 2021)
In the complex valued function z = x - iy, the value of $V_z =$ _____.
Select the correct option
Reload
-1
0
1
2
Click to Save Answer & Move to
Page: 93 of 157
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English (U.K.)
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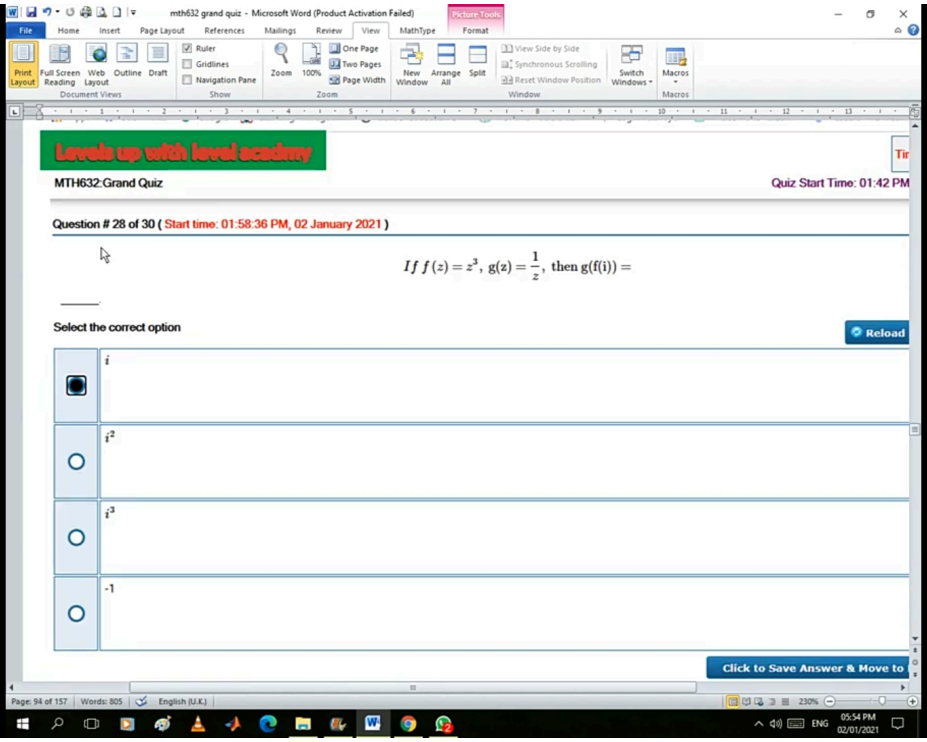
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Quiz Start Time: 01:42 PM
Question # 28 of 30 (Start time: 01:58:36 PM, 02 January 2021)
If $f(z) = z^3$, $g(z) = \frac{1}{z}$, then g(f(i)) =
Select the correct option
Reload
i
i^2
i^3
-1
Click to Save Answer & Move to
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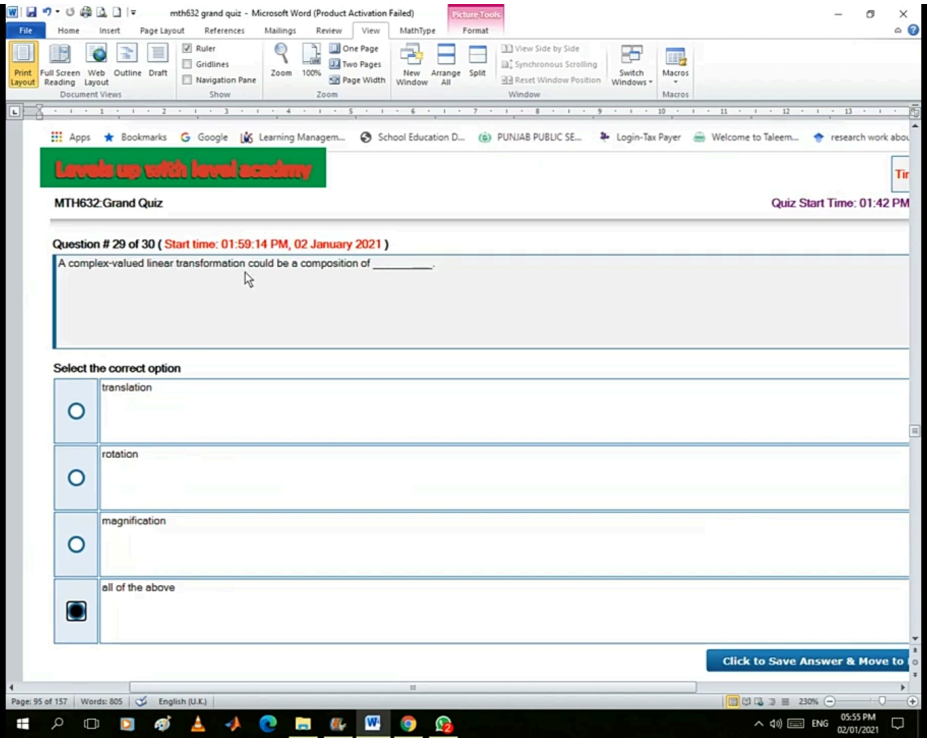
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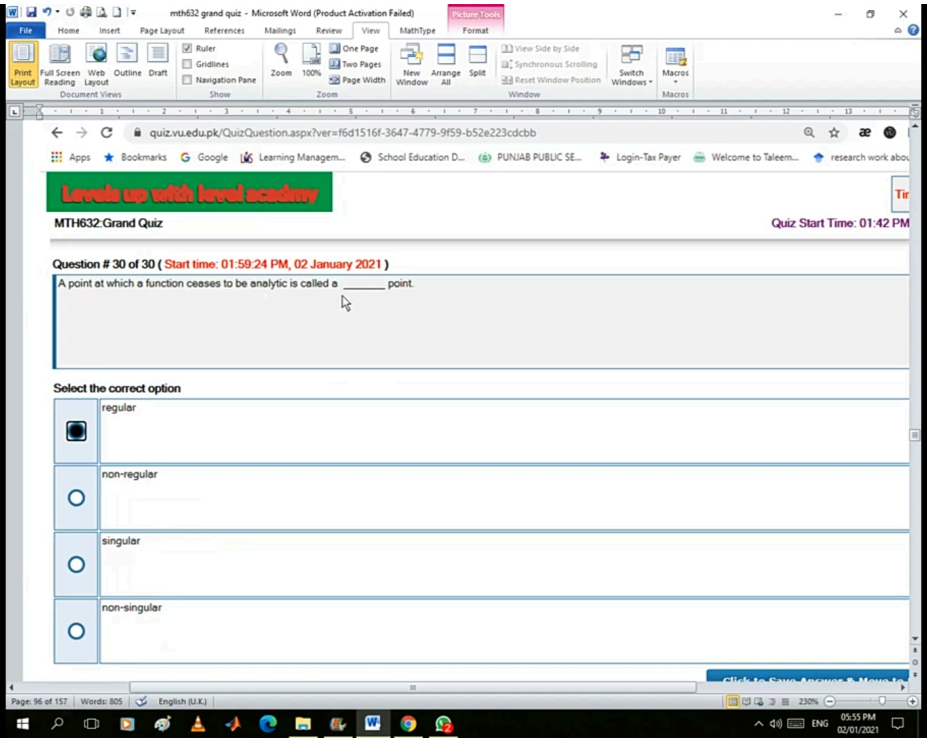
MTH632:Grand Quiz
Quiz Start Time: 01:42 PM
Question # 29 of 30 (Start time: 01:59:14 PM, 02 January 2021)
A complex-valued linear transformation could be a composition of _____.
Select the correct option
translation
rotation
magnification
all of the above
Click to Save Answer & Move to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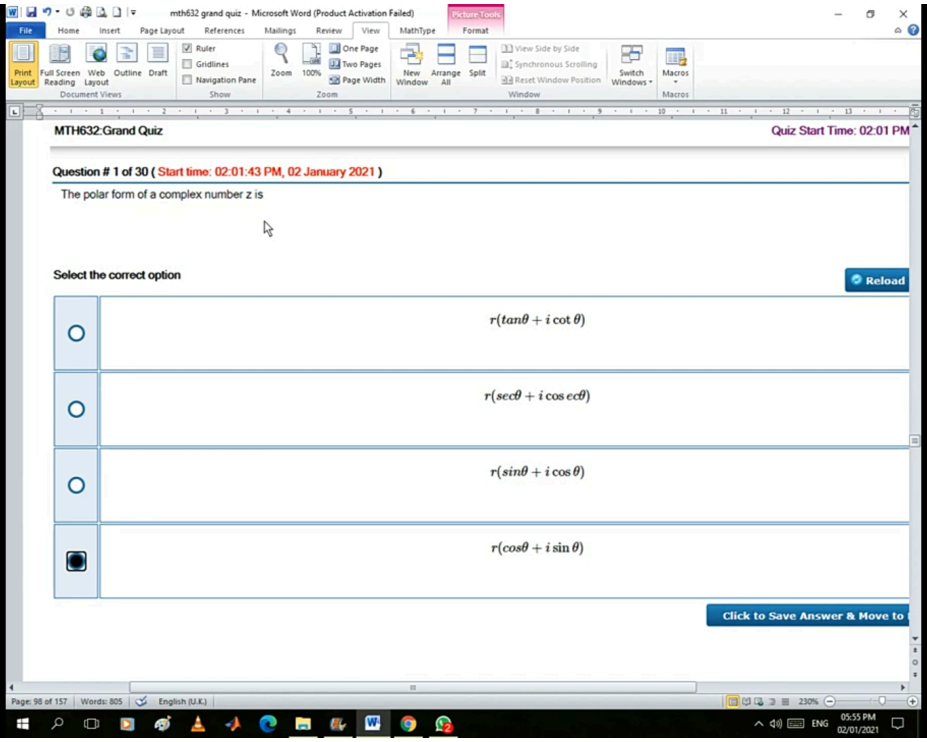
MTH632:Grand Quiz
Quiz Start Time: 01:42 PM
Question # 30 of 30 (Start time: 01:59:24 PM, 02 January 2021)
A point at which a function ceases to be analytic is called a _____ point.
Select the correct option
regular
non-regular
singular
non-singular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MTH632:Grand Quiz
Quiz Start Time: 02:01 PM
Question # 1 of 30 (Start time: 02:01:43 PM, 02 January 2021)
The polar form of a complex number z is
Select the correct option
Reload
$r(tan\theta + i\cot\theta)$
$r(sec\theta + i\cos ec\theta)$
$r(sin\theta + i\cos\theta)$
$r(cos\theta + i\sin\theta)$
Click to Save Answer & Move to
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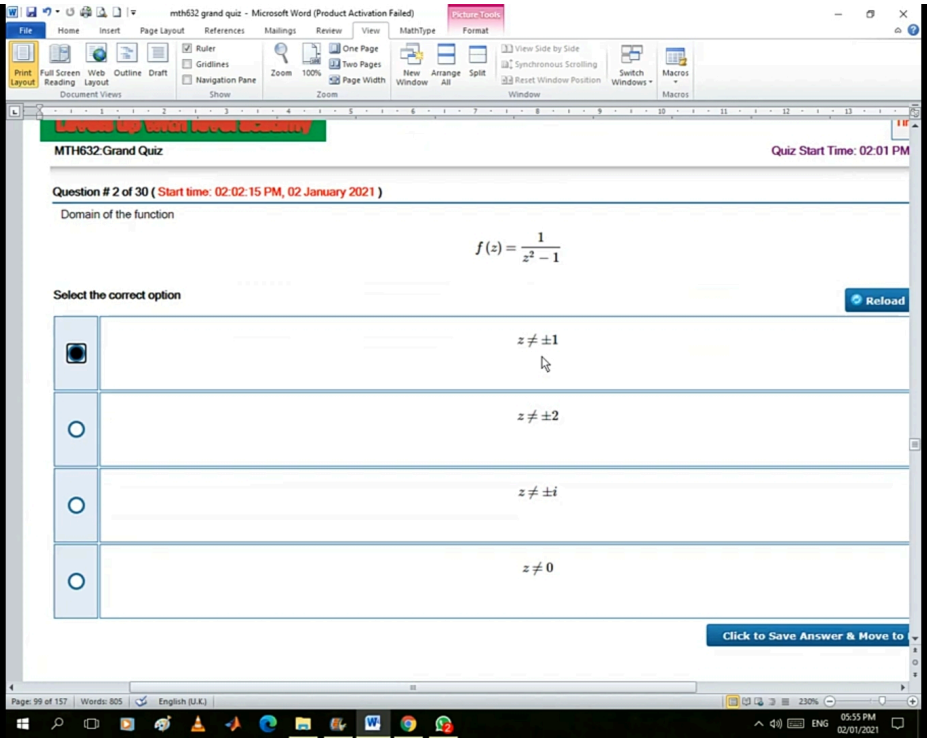
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MTH632:Grand Quiz
Quiz Start Time: 02:01 PM
Question # 2 of 30 (Start time: 02:02:15 PM, 02 January 2021)
Domain of the function
$f(z) = \frac{1}{z^2 - 1}$
Select the correct option
Reload
$z \neq \pm 1$
$z \neq \pm 2$
$z \neq \pm i$
$z \neq 0$
Click to Save Answer & Move to
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Words: 805
English (U.K.)
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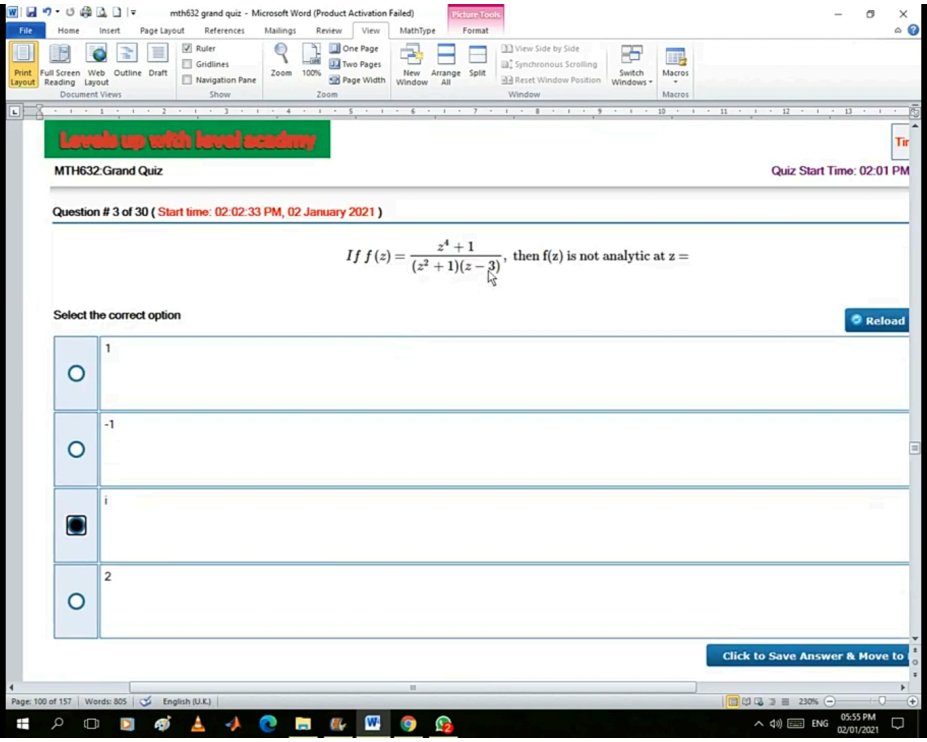
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MTH632:Grand Quiz
Quiz Start Time: 02:01 PM
Question # 3 of 30 (Start time: 02:02:33 PM, 02 January 2021)
If $f(z) = \frac{z^4+1}{(z^2+1)(z-3)}$, then f(z) is not analytic at z =
Select the correct option
Reload
1
-1
i
2
Click to Save Answer & Move to
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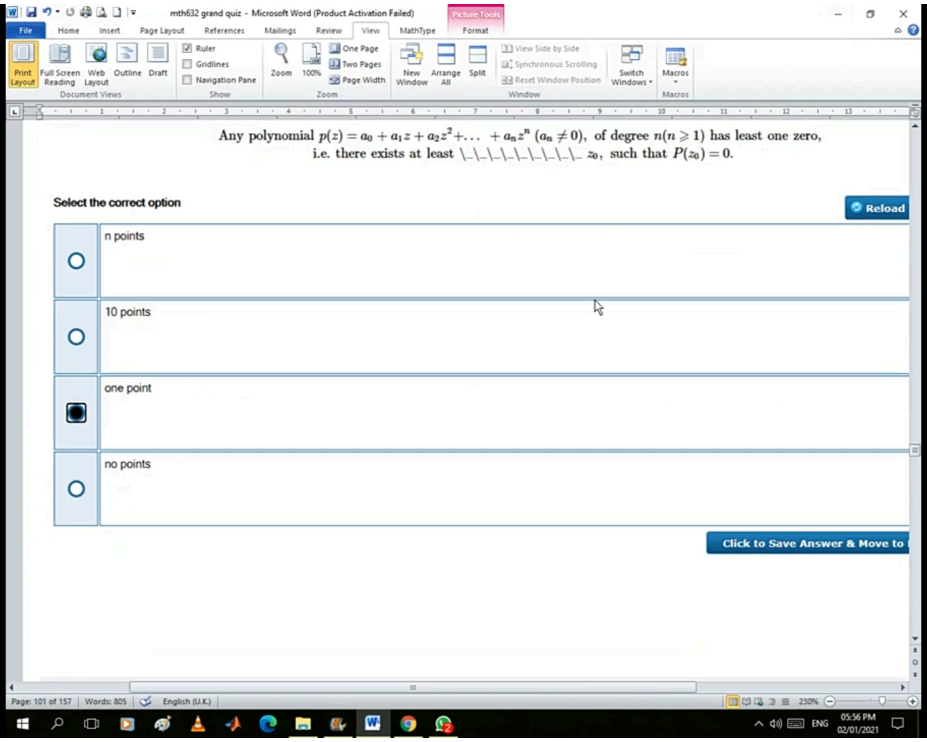
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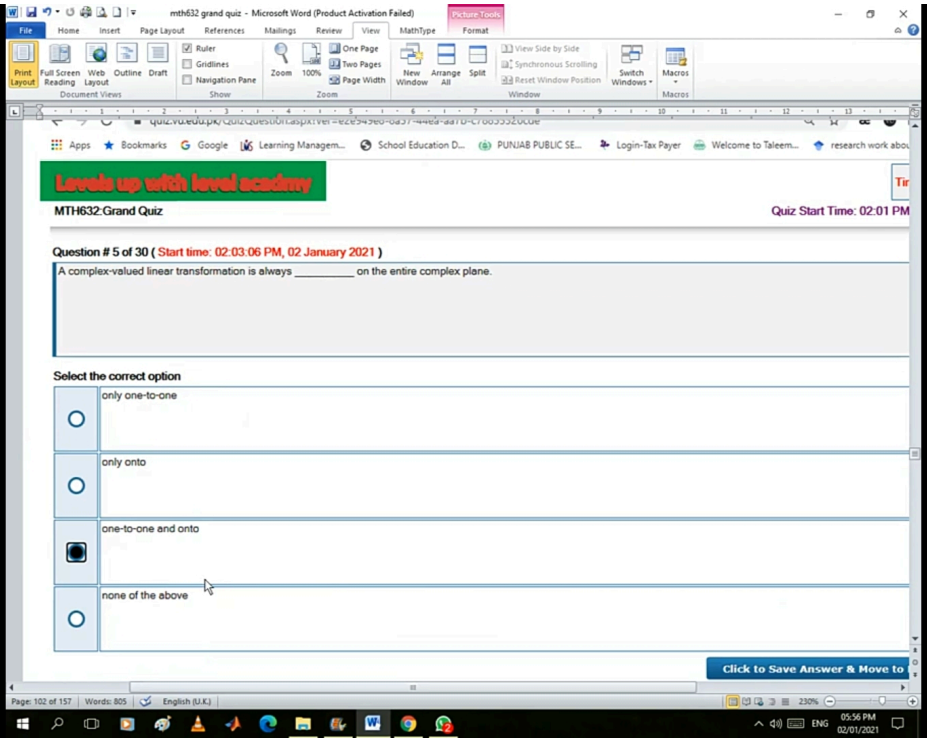
Any polynomial $p(z) = a_0 + a_1 z + a_2 z^2 + \ldots + a_n z^n$ $(a_n \neq 0)$, of degree $n (n \geq 1)$ has least one zero,
i.e. there exists at least _____ z_0, such that $P(z_0) = 0$.
Select the correct option
Reload
n points
10 points
one point
no points
Click to Save Answer & Move to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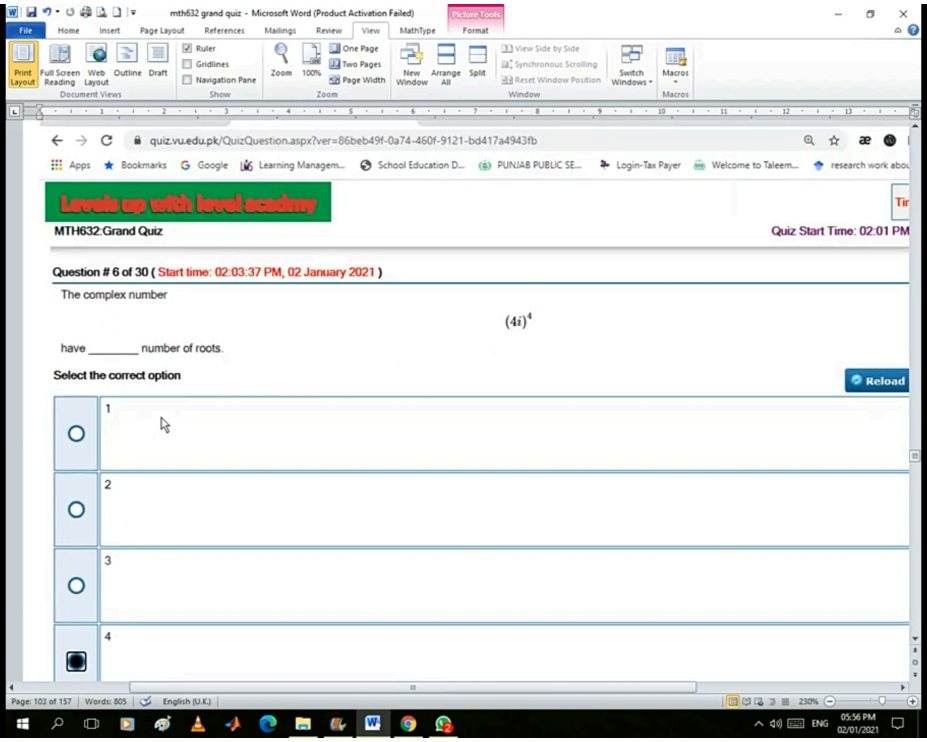
Quiz Start Time: 02:01 PM
Question # 5 of 30 (Start time: 02:03:06 PM, 02 January 2021)
A complex-valued linear transformation is always _____ on the entire complex plane.
Select the correct option
only one-to-one
only onto
one-to-one and onto
none of the above
Click to Save Answer & Move to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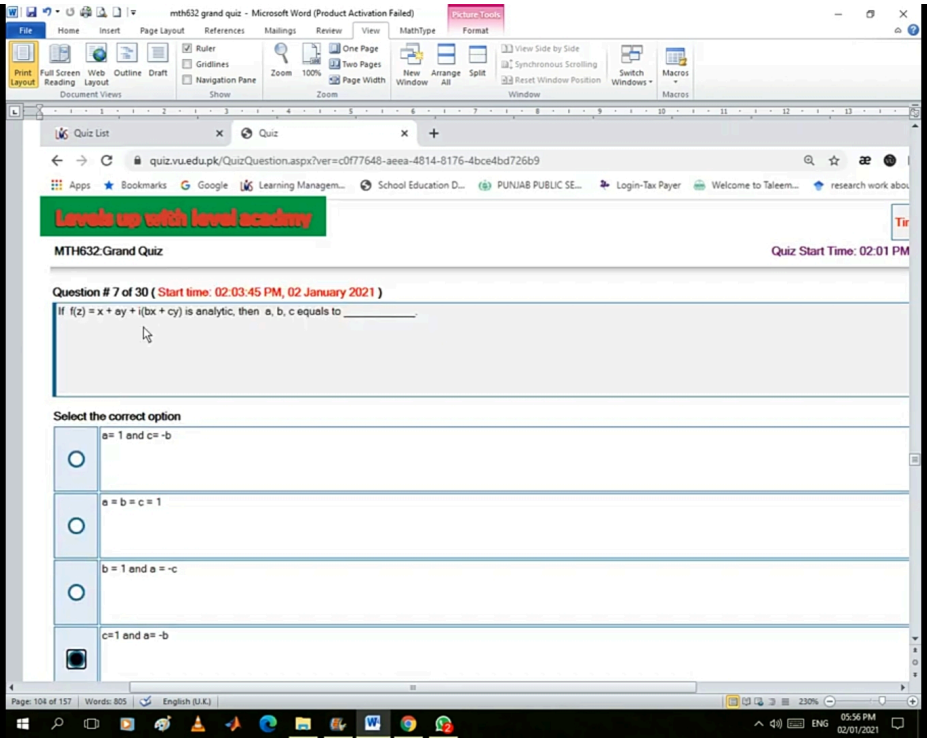
Quiz Start Time: 02:01 PM
Question # 6 of 30 (Start time: 02:03:37 PM, 02 January 2021)
The complex number
$(4i)^4$
have _____ number of roots.
Select the correct option
Reload
1
2
3
4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Quiz Start Time: 02:01 PM
Question # 7 of 30 (Start time: 02:03:45 PM, 02 January 2021)
If f(z) = x + ay + i(bx + cy) is analytic, then a, b, c equals to _____.
Select the correct option
a= 1 and c= -b
a = b = c = 1
b = 1 and a = -c
c=1 and a= -b
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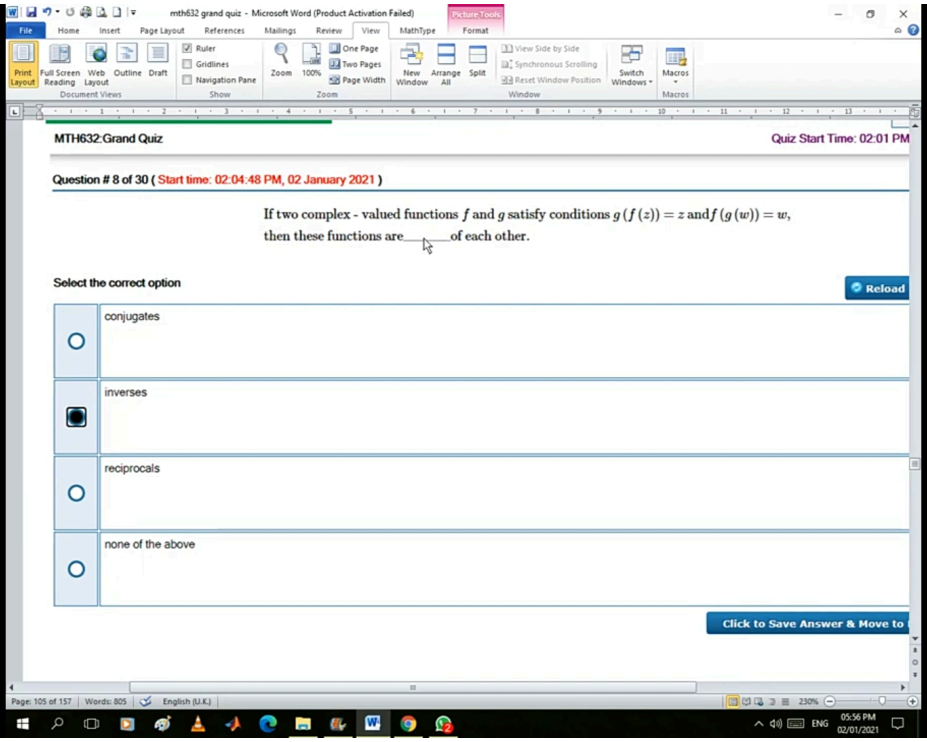
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Quiz Start Time: 02:01 PM
Question # 8 of 30 (Start time: 02:04:48 PM, 02 January 2021)
If two complex - valued functions f and g satisfy conditions g(f(z)) = z and f(g(w)) = w, then these functions are_____of each other.
Select the correct option
Reload
conjugates
inverses
reciprocals
none of the above
Click to Save Answer & Move to
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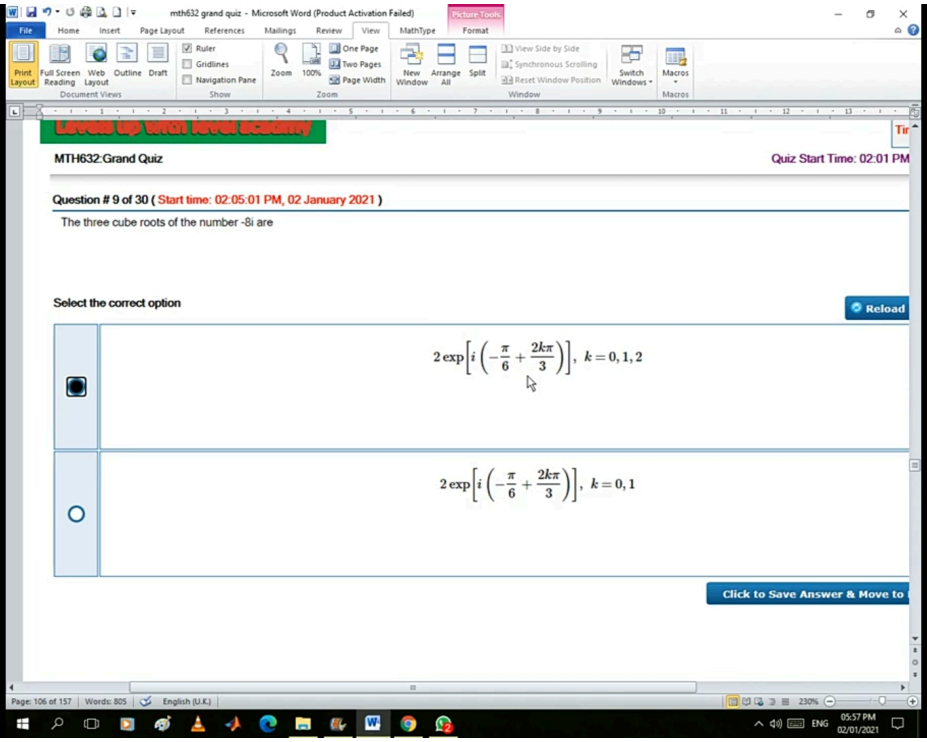
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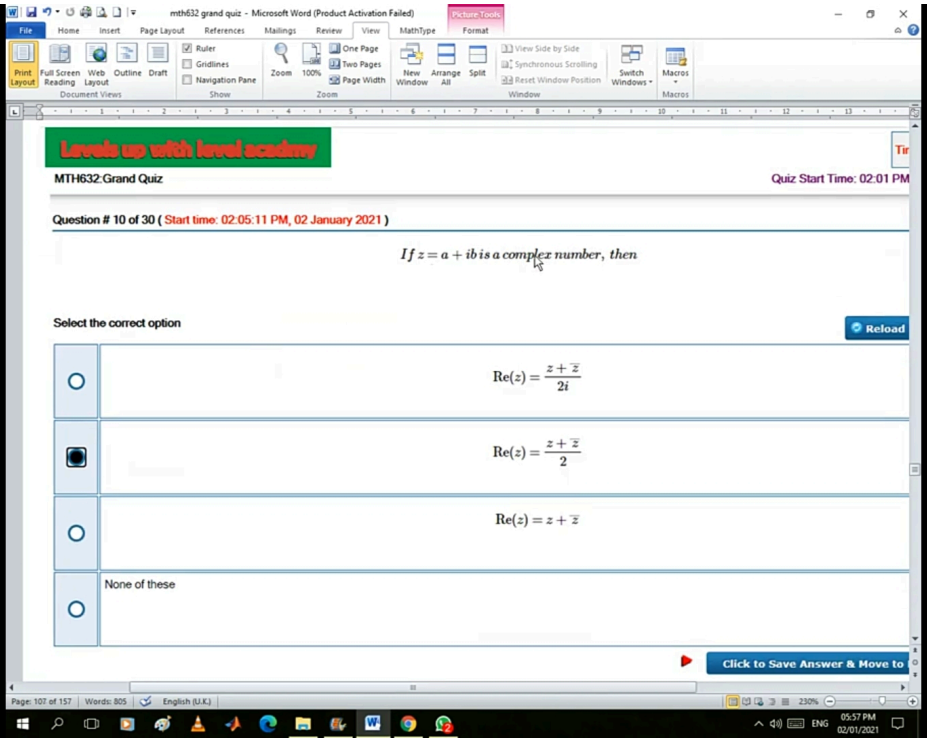
Quiz Start Time: 02:01 PM
Question # 9 of 30 (Start time: 02:05:01 PM, 02 January 2021)
The three cube roots of the number -8i are
Select the correct option
Reload
$2\exp\left[i\left(-\frac{\pi}{6}+\frac{2k\pi}{3}\right)\right],\ k=0,1,2$
$2\exp\left[i\left(-\frac{\pi}{6}+\frac{2k\pi}{3}\right)\right],\ k=0,1$
Click to Save Answer & Move to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Quiz Start Time: 02:01 PM
Question # 10 of 30 (Start time: 02:05:11 PM, 02 January 2021)
If z = a + ib is a complex number, then
Select the correct option
Reload
Re(z) = (z + z̄)/2i
Re(z) = (z + z̄)/2
Re(z) = z + z̄
None of these
Click to Save Answer & Move to
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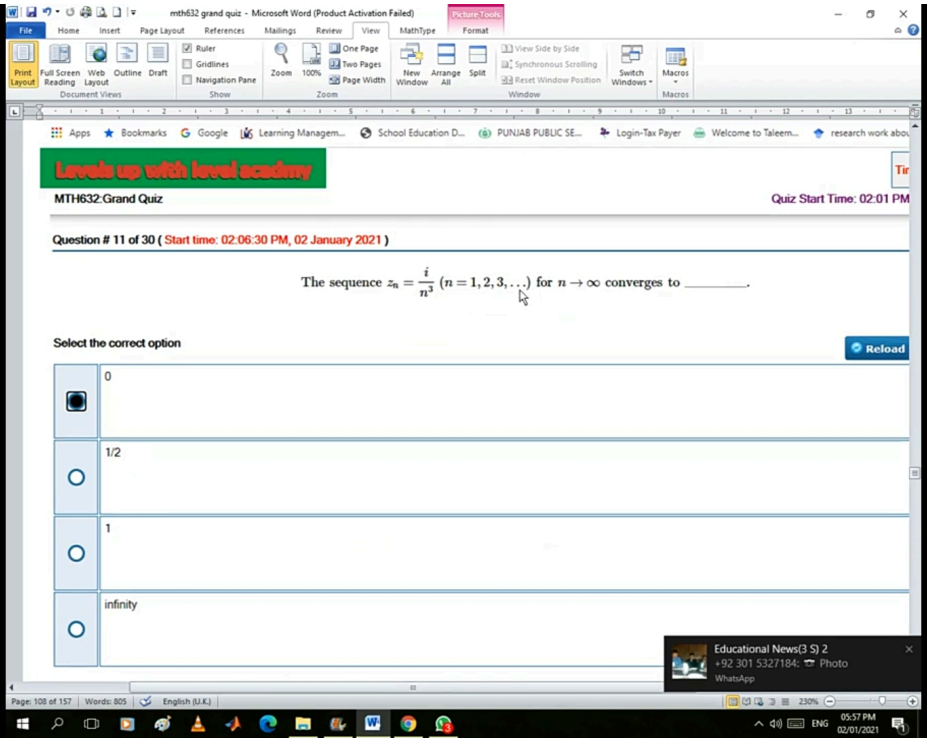
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Quiz Start Time: 02:01 PM
Question # 11 of 30 (Start time: 02:06:30 PM, 02 January 2021)
The sequence $z_n = \frac{i}{n^3}\ (n = 1, 2, 3, \ldots)$ for $n \to \infty$ converges to _____.
Select the correct option
Reload
0
1/2
1
infinity
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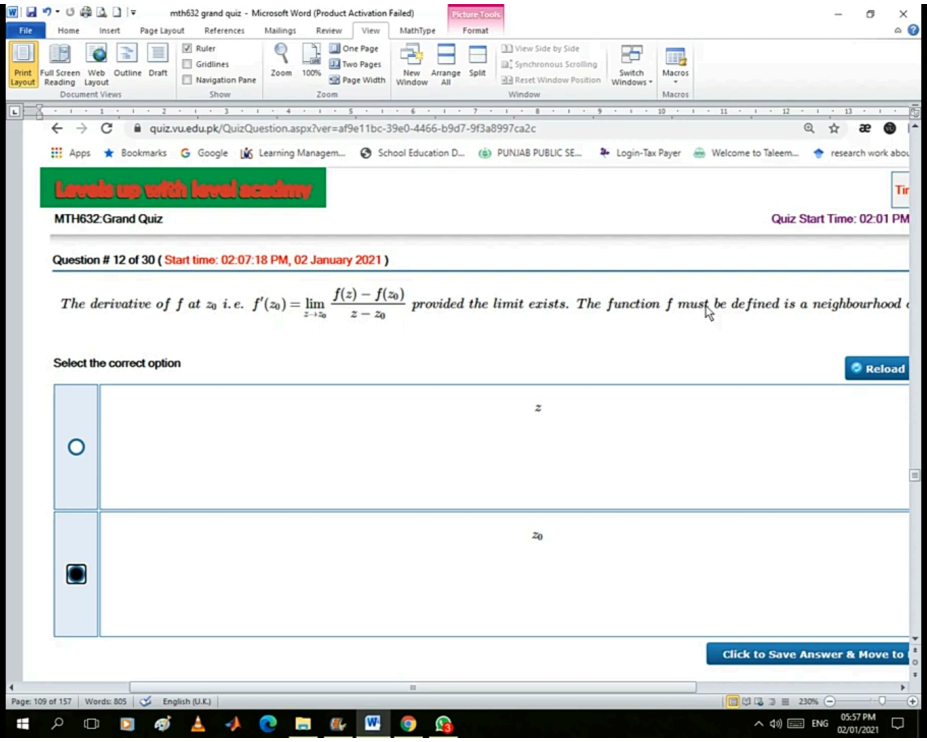
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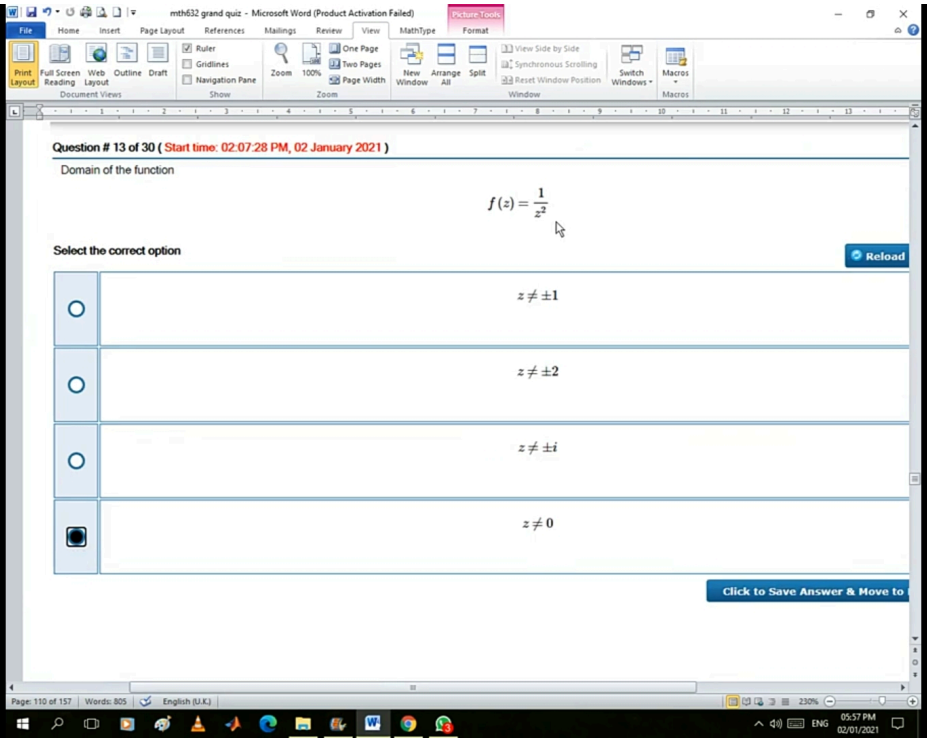
Quiz Start Time: 02:01 PM
Question # 12 of 30 (Start time: 02:07:18 PM, 02 January 2021)
The derivative of f at z_0 i.e. $f'(z_0) = \lim_{z \to z_0} \frac{f(z) - f(z_0)}{z - z_0}$ provided the limit exists. The function f must be defined is a neighbourhood
Select the correct option
Reload
z
z_0
Click to Save Answer & Move to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Question # 13 of 30 (Start time: 02:07:28 PM, 02 January 2021)
Domain of the function
$f(z) = \frac{1}{z^2}$
Select the correct option
Reload
$z \neq \pm 1$
$z \neq \pm 2$
$z \neq \pm i$
$z \neq 0$
Click to Save Answer & Move to
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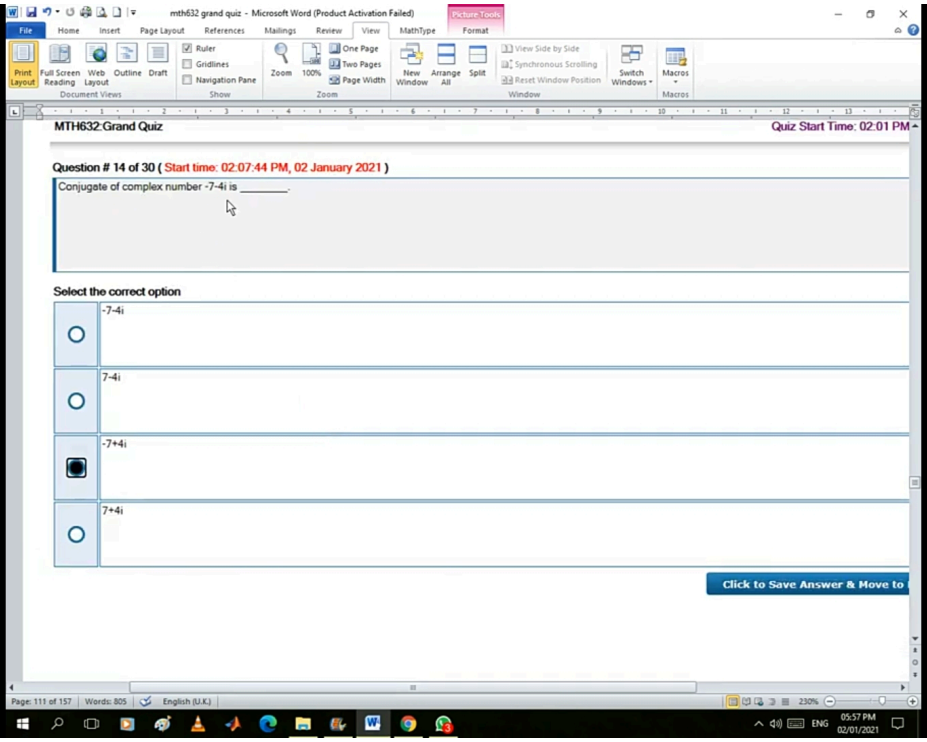
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MTH632:Grand Quiz
Quiz Start Time: 02:01 PM
Question # 14 of 30 (Start time: 02:07:44 PM, 02 January 2021)
Conjugate of complex number -7-4i is _____.
Select the correct option
-7-4i
7-4i
-7+4i
7+4i
Click to Save Answer & Move to
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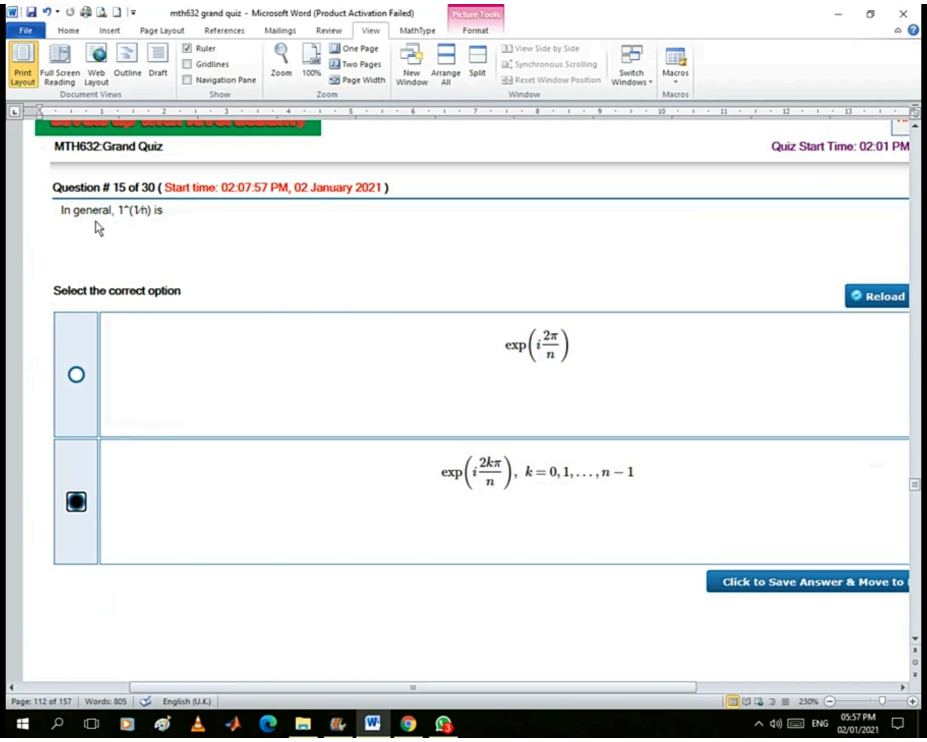
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MTH632:Grand Quiz
Quiz Start Time: 02:01 PM
Question # 15 of 30 (Start time: 02:07:57 PM, 02 January 2021)
In general, 1^(1/n) is
Select the correct option
Reload
$\exp\left(i\frac{2\pi}{n}\right)$
$\exp\left(i\frac{2k\pi}{n}\right),\ k=0,1,\ldots,n-1$
Click to Save Answer & Move to
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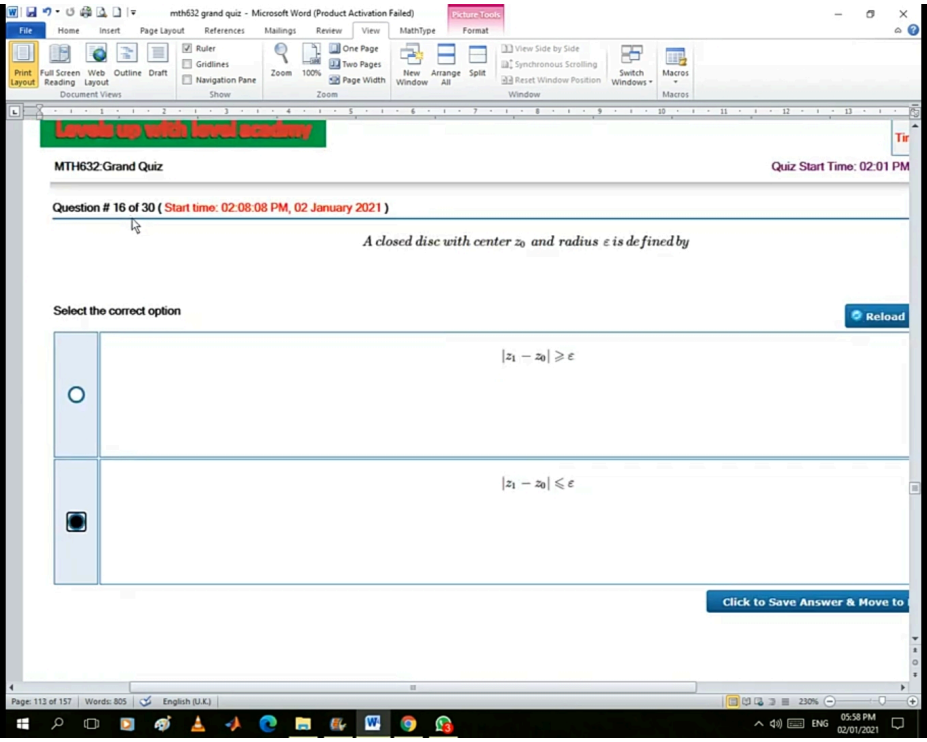
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MTH632:Grand Quiz
Quiz Start Time: 02:01 PM
Question # 16 of 30 (Start time: 02:08:08 PM, 02 January 2021)
A closed disc with center z_0 and radius ϵ is defined by
Select the correct option
Reload
$|z_1 - z_0| \geq \epsilon$
$|z_1 - z_0| \leq \epsilon$
Click to Save Answer & Move to
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English (U.K.)
05:58 PM
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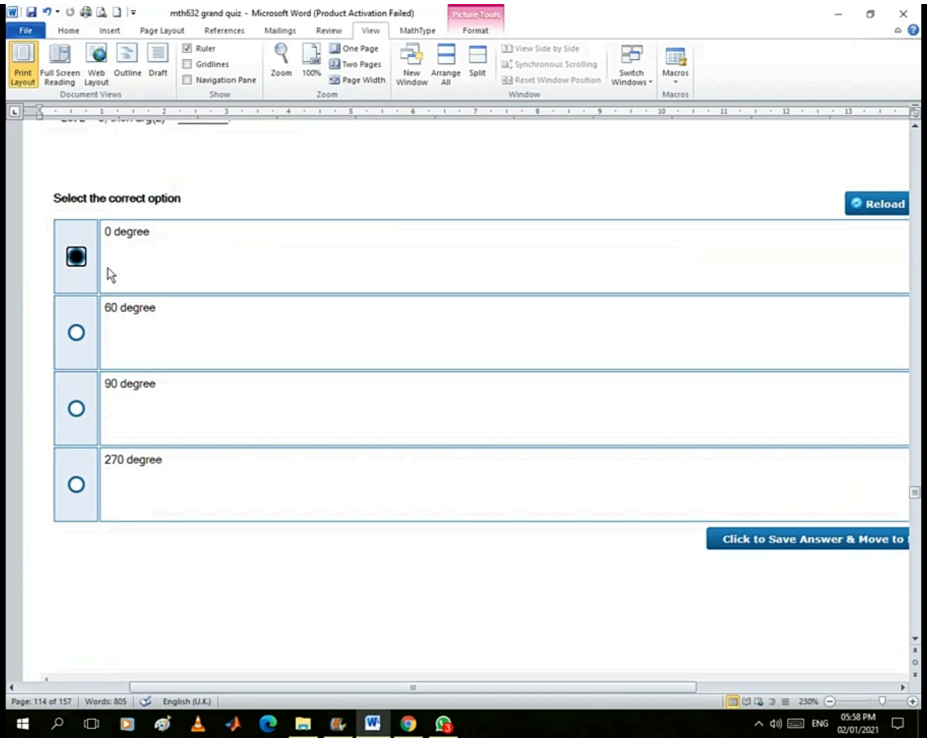
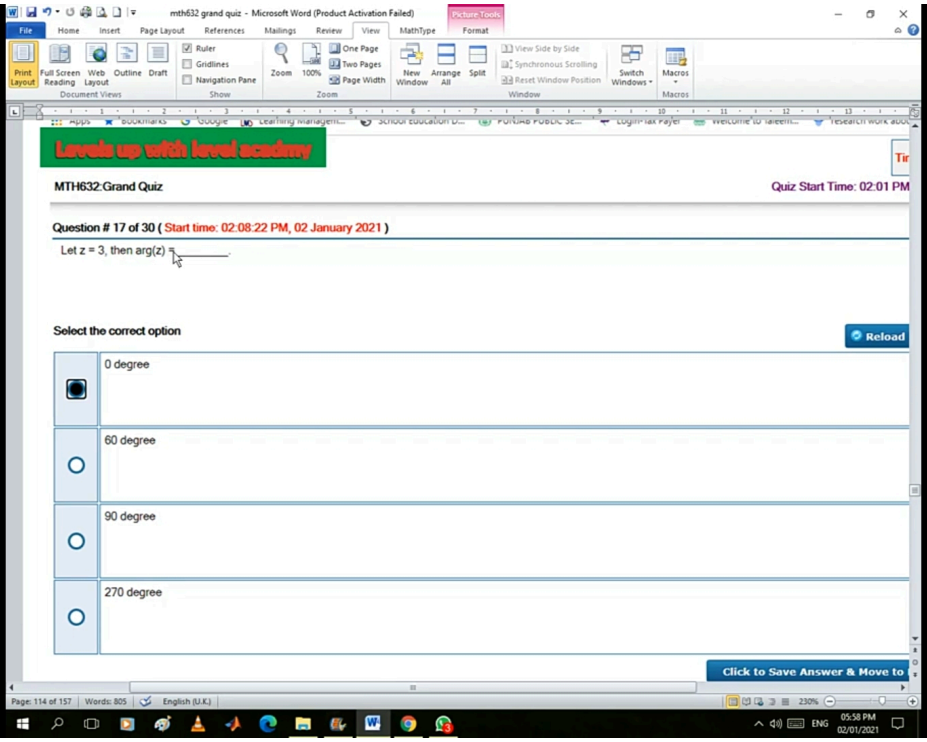

mth632 grand quiz - Microsoft Word (Product Activation Failed)
Select the correct option
Reload
0 degree
60 degree
90 degree
270 degree
Click to Save Answer & Move to


mth632 grand quiz - Microsoft Word (Product Activation Failed)
Levels up with level academy
MTH632:Grand Quiz
Quiz Start Time: 02:01 PM
Question # 17 of 30 (Start time: 02:08:22 PM, 02 January 2021)
Let z = 3, then arg(z) =
Select the correct option
Reload
0 degree
60 degree
90 degree
270 degree
Click to Save Answer & Move to
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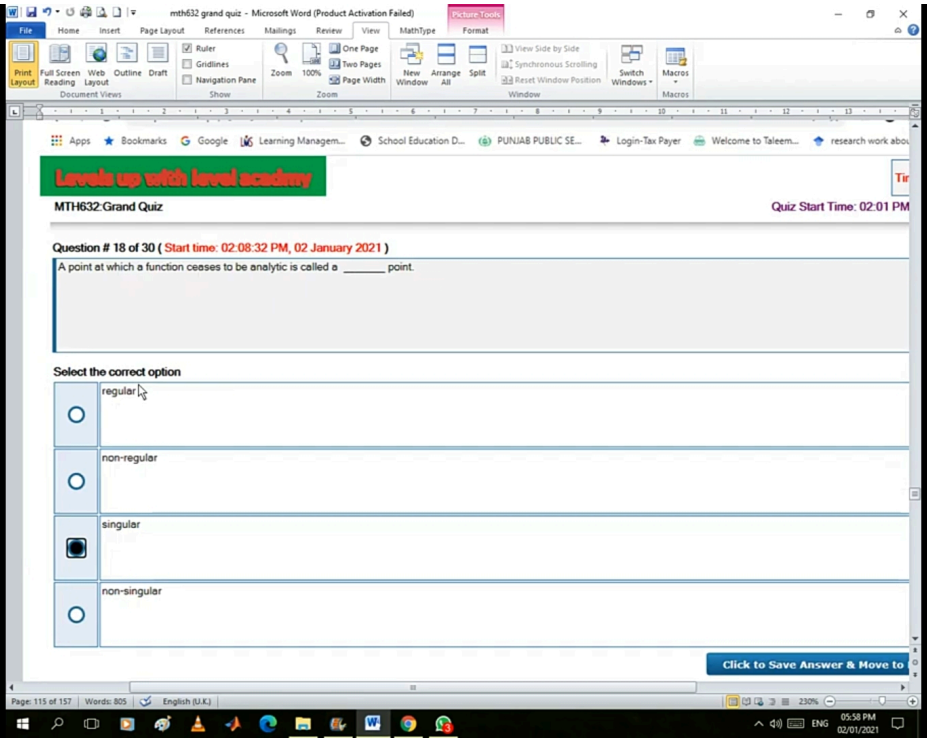
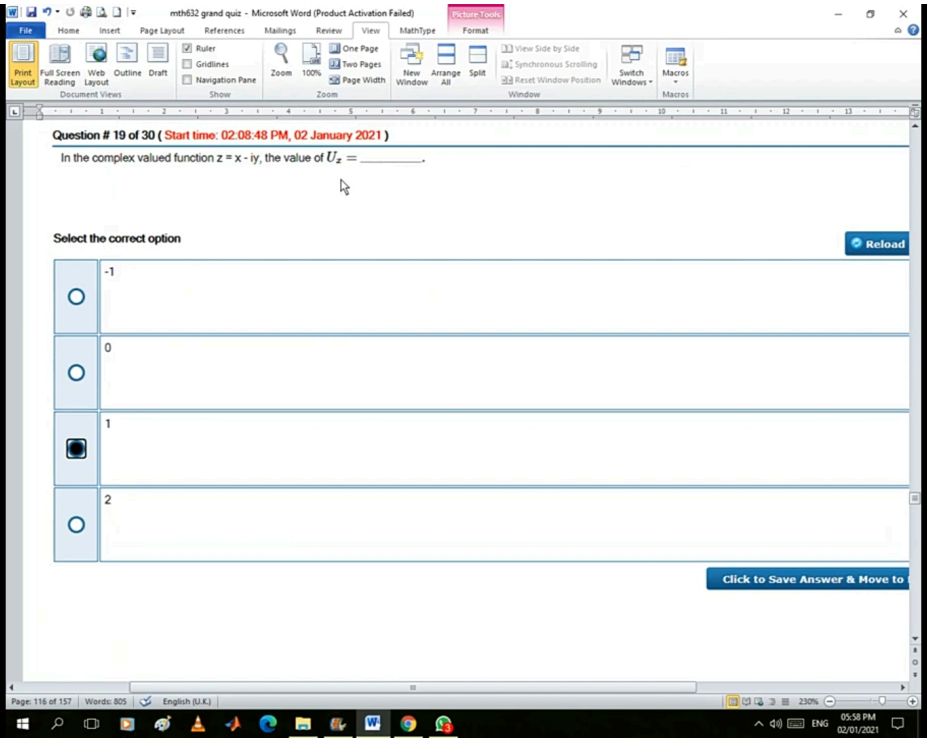
Words: 805
English (U.K.)
230%
05:58 PM
02/01/2021


mth632 grand quiz - Microsoft Word (Product Activation Failed)
Levels up with level academy
MTH632:Grand Quiz
Quiz Start Time: 02:01 PM
Question # 18 of 30 (Start time: 02:08:32 PM, 02 January 2021)
A point at which a function ceases to be analytic is called a _____ point.
Select the correct option
regular
non-regular
singular
non-singular
Click to Save Answer & Move to


mth632 grand quiz - Microsoft Word (Product Activation Failed)
Question # 19 of 30 (Start time: 02:08:48 PM, 02 January 2021)
In the complex valued function z = x - iy, the value of $U_z =$ _____.
Select the correct option
Reload
-1
0
1
2
Click to Save Answer & Move to
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Words: 805
English (U.K.)
230%
05:58 PM
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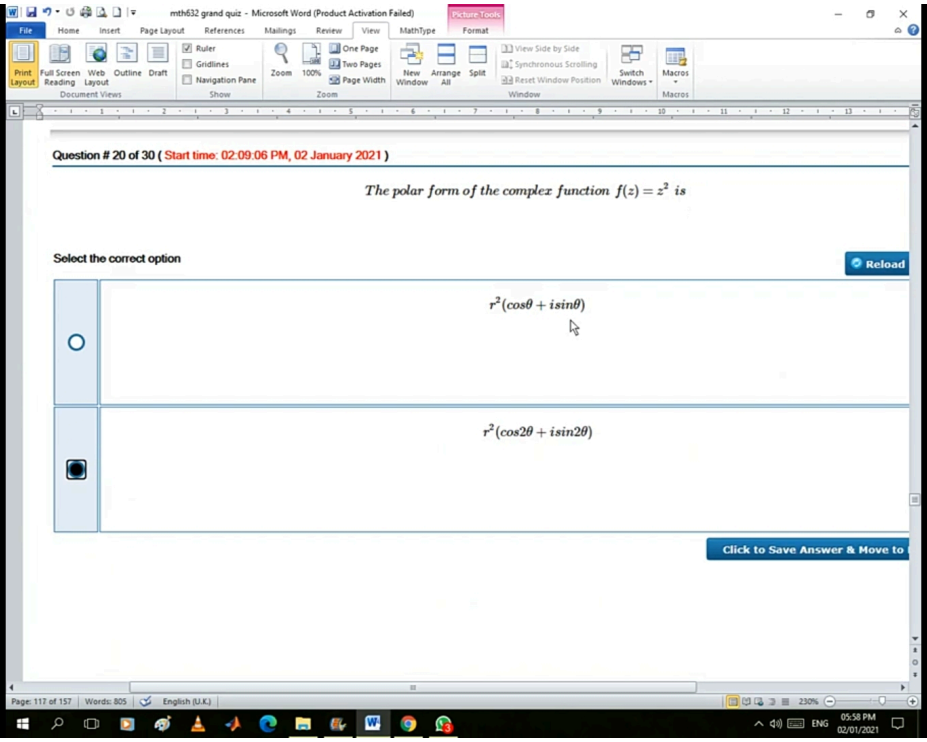
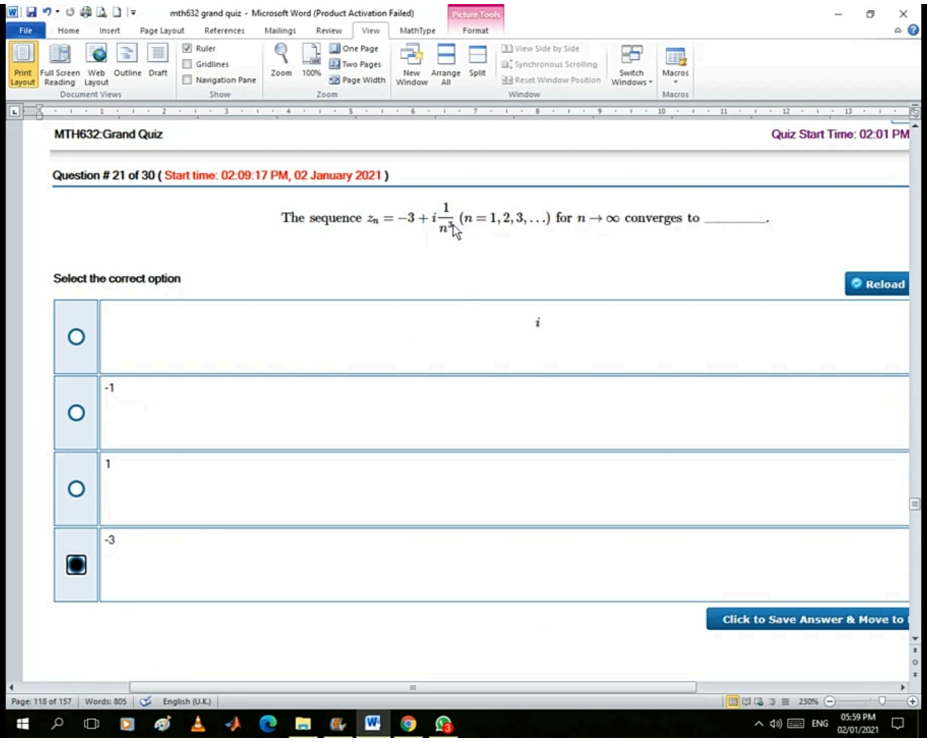
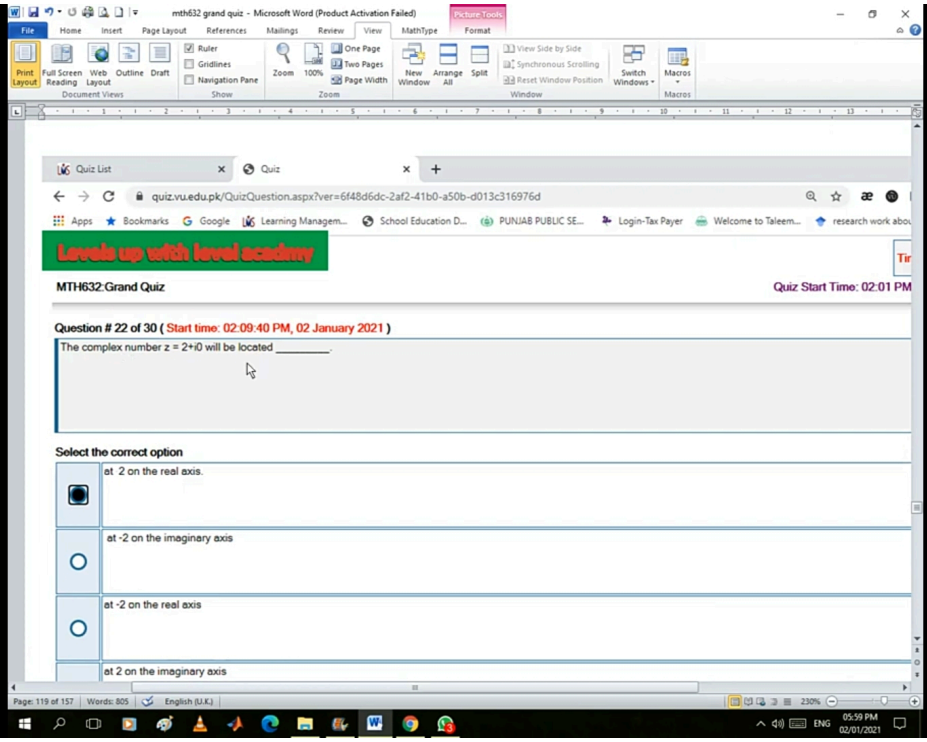
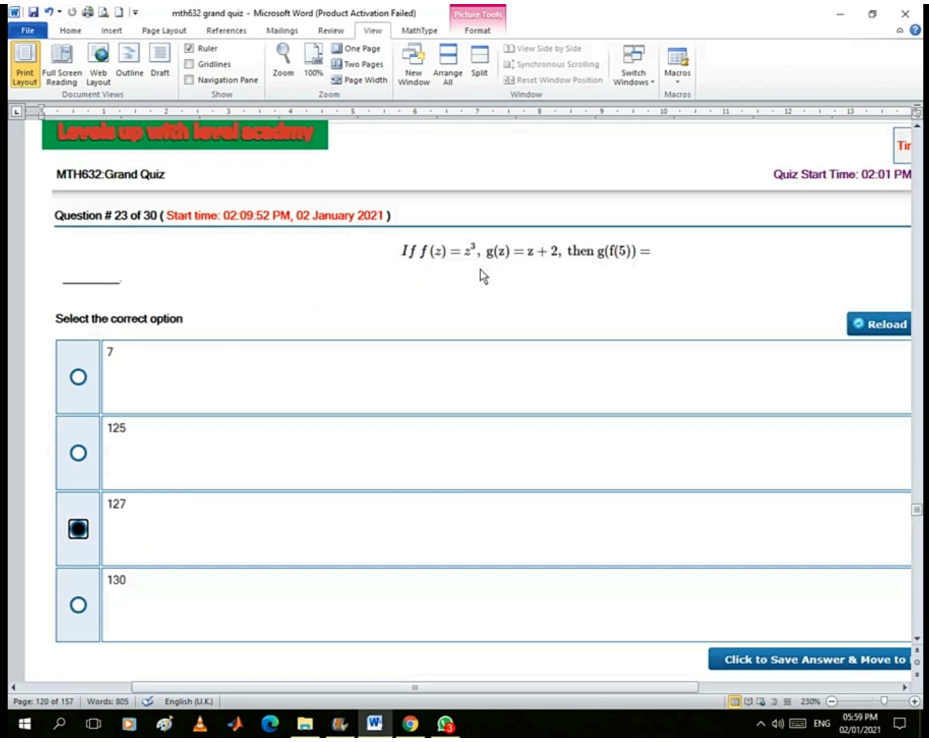

mth632 grand quiz - Microsoft Word (Product Activation Failed)
Question # 20 of 30 (Start time: 02:09:06 PM, 02 January 2021)
The polar form of the complex function $f(z) = z^2$ is
Select the correct option
Reload
$r^2(cos\theta + isin\theta)$
$r^2(cos2\theta + isin2\theta)$
Click to Save Answer & Move to
Page: 117 of 157
Words: 805
English (U.K.)
230%
ENG
05:58 PM
02/01/2021


mth632 grand quiz - Microsoft Word (Product Activation Failed)
MTH632:Grand Quiz
Quiz Start Time: 02:01 PM
Question # 21 of 30 (Start time: 02:09:17 PM, 02 January 2021)
The sequence $z_n = -3 + i\frac{1}{n^2}$ $(n = 1, 2, 3, \ldots)$ for $n \to \infty$ converges to _____.
Select the correct option
Reload
i
-1
1
-3
Click to Save Answer & Move to
Page: 118 of 157
Words: 805
English (U.K.)
230%
ENG
05:59 PM
02/01/2021


mth632 grand quiz - Microsoft Word (Product Activation Failed)
Quiz List
Quiz
quiz.vu.edu.pk/QuizQuestion.aspx?ver=6f48d6dc-2af2-41b0-a50b-d013c316976d
Levels up with level academy
MTH632:Grand Quiz
Quiz Start Time: 02:01 PM
Question # 22 of 30 (Start time: 02:09:40 PM, 02 January 2021)
The complex number z = 2+i0 will be located _____.
Select the correct option
at 2 on the real axis.
at -2 on the imaginary axis
at -2 on the real axis
at 2 on the imaginary axis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Levels up with level academy
MTH632:Grand Quiz
Quiz Start Time: 02:01 PM
Question # 23 of 30 (Start time: 02:09:52 PM, 02 January 2021)
If f(z) = z^3, g(z) = z + 2, then g(f(5)) =
Select the correct option
Reload
7
125
127
130
Click to Save Answer & Move to
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Words: 805
English (U.K.)
05:59 PM
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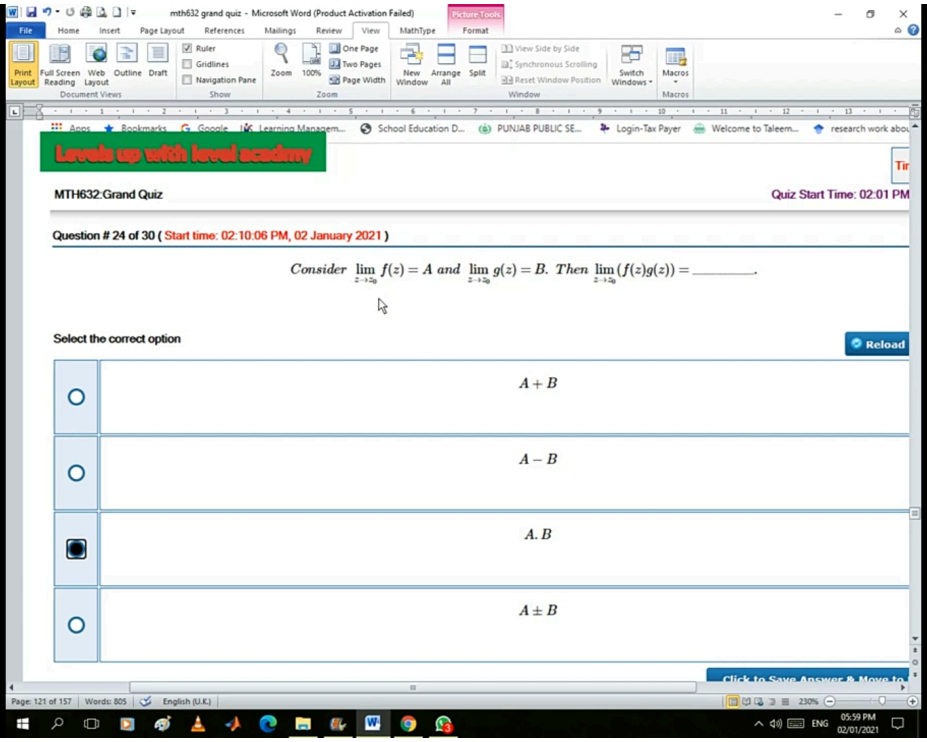
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MTH632:Grand Quiz
Quiz Start Time: 02:01 PM
Question # 24 of 30 (Start time: 02:10:06 PM, 02 January 2021)
Consider $\lim_{z \to z_0} f(z) = A$ and $\lim_{z \to z_0} g(z) = B$. Then $\lim_{z \to z_0} (f(z)g(z)) =$ _____.
Select the correct option
Reload
$A + B$
$A - B$
$A.B$
$A \pm B$
Click to Save Answer & Move to
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Words: 805
English (U.K.)
230%
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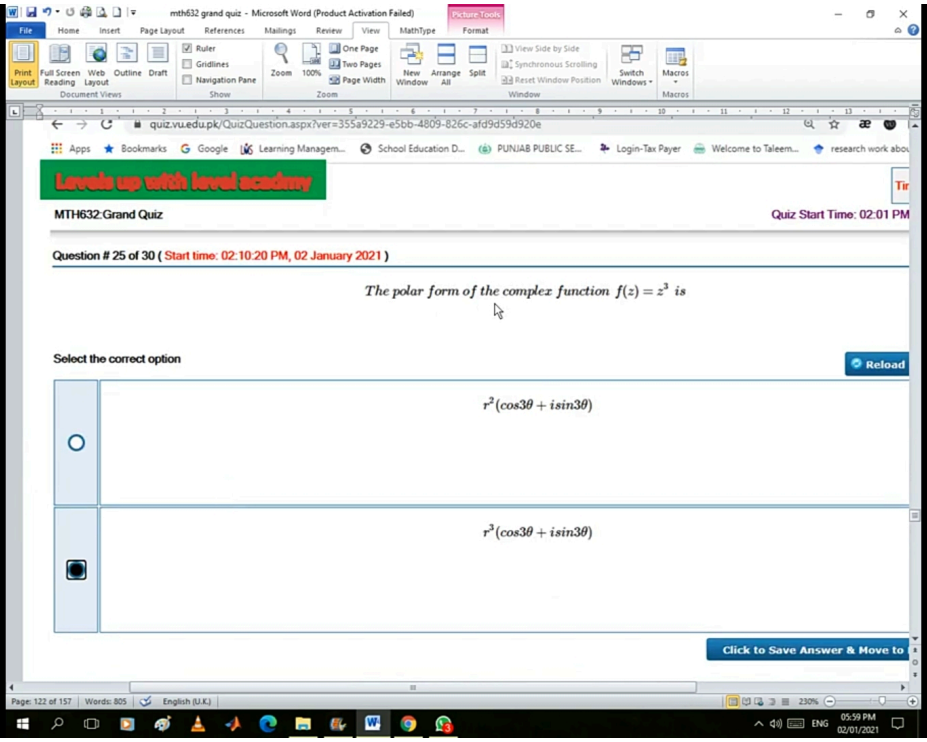
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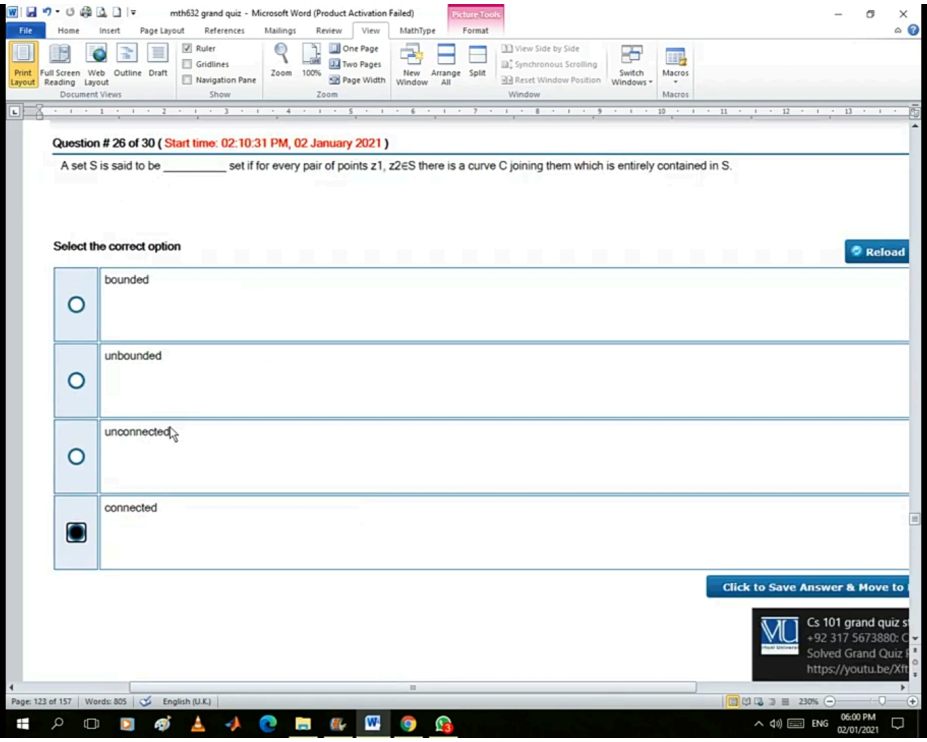
MTH632:Grand Quiz
Quiz Start Time: 02:01 PM
Question # 25 of 30 (Start time: 02:10:20 PM, 02 January 2021)
The polar form of the complex function $f(z) = z^3$ is
Select the correct option
Reload
$r^2(cos3\theta + isin3\theta)$
$r^3(cos3\theta + isin3\theta)$
Click to Save Answer & Move to


mth632 grand quiz - Microsoft Word (Product Activation Failed)
Question # 26 of 30 (Start time: 02:10:31 PM, 02 January 2021)
A set S is said to be _____ set if for every pair of points z1, z2∈S there is a curve C joining them which is entirely contained in S.
Select the correct option
Reload
bounded
unbounded
unconnected
connected
Click to Save Answer & Move to
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Solved Grand Quiz
https://youtu.be/Xf
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Words: 805
English (U.K.)
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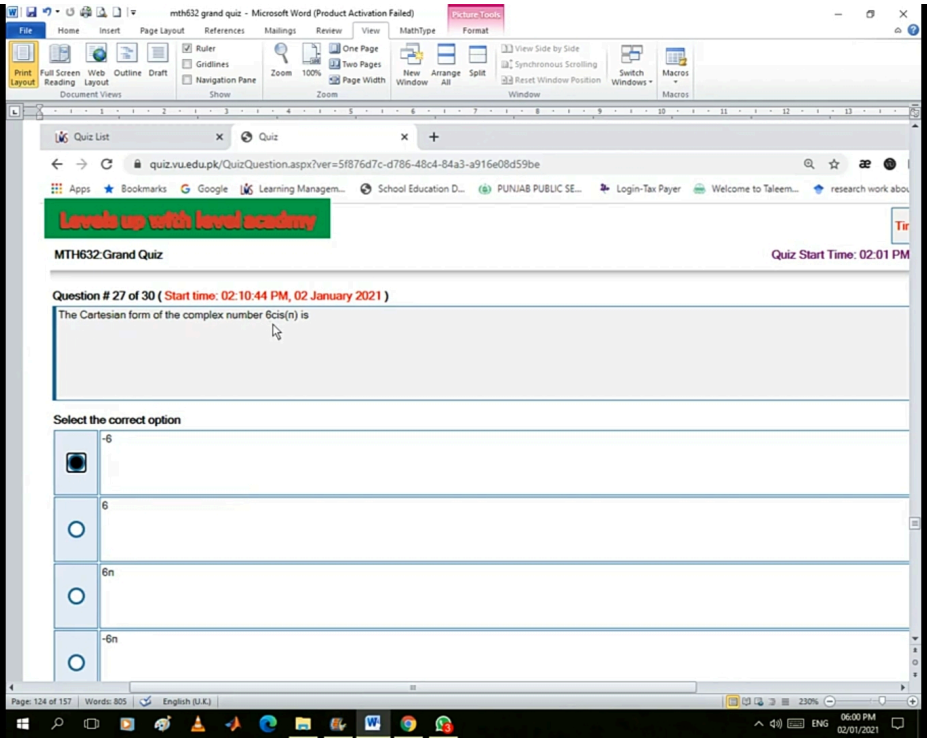
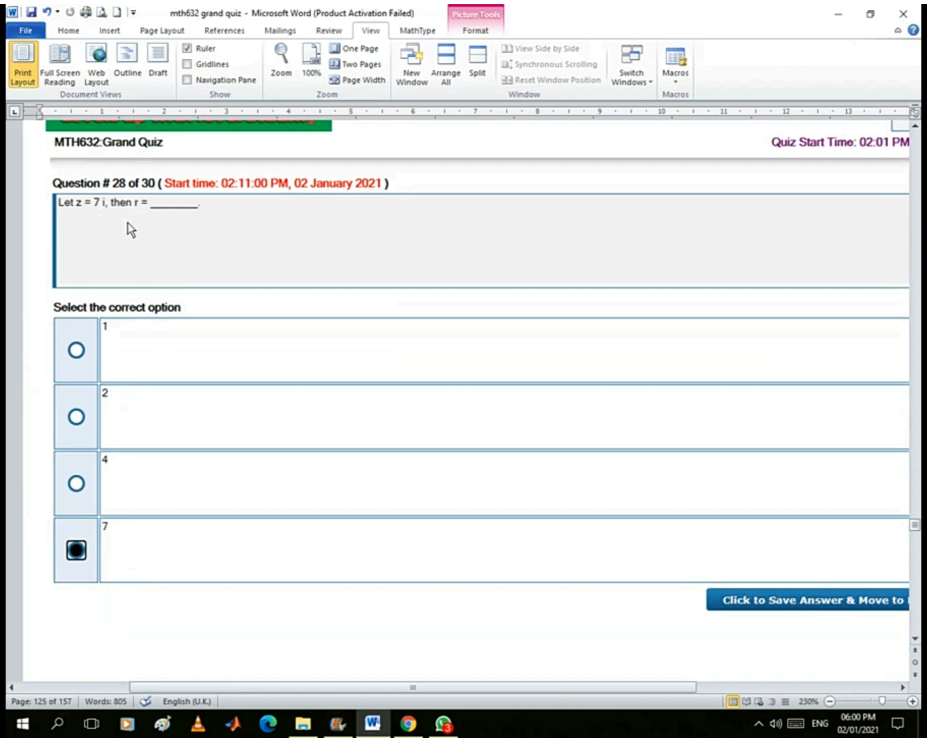

mth632 grand quiz - Microsoft Word (Product Activation Failed)
Quiz List
Quiz
quiz.vu.edu.pk/QuizQuestion.aspx?ver=5f876d7c-d786-48c4-84a3-a916e08d59be
Levels up with level academy
MTH632:Grand Quiz
Quiz Start Time: 02:01 PM
Question # 27 of 30 (Start time: 02:10:44 PM, 02 January 2021)
The Cartesian form of the complex number 6cis(n) is
Select the correct option
-6
6
6n
-6n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MTH632:Grand Quiz
Quiz Start Time: 02:01 PM
Question # 28 of 30 (Start time: 02:11:00 PM, 02 January 2021)
Let z = 7 i, then r = _____.
Select the correct option
1
2
4
7
Click to Save Answer & Move to
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Words: 805
English (U.K.)
06:00 PM
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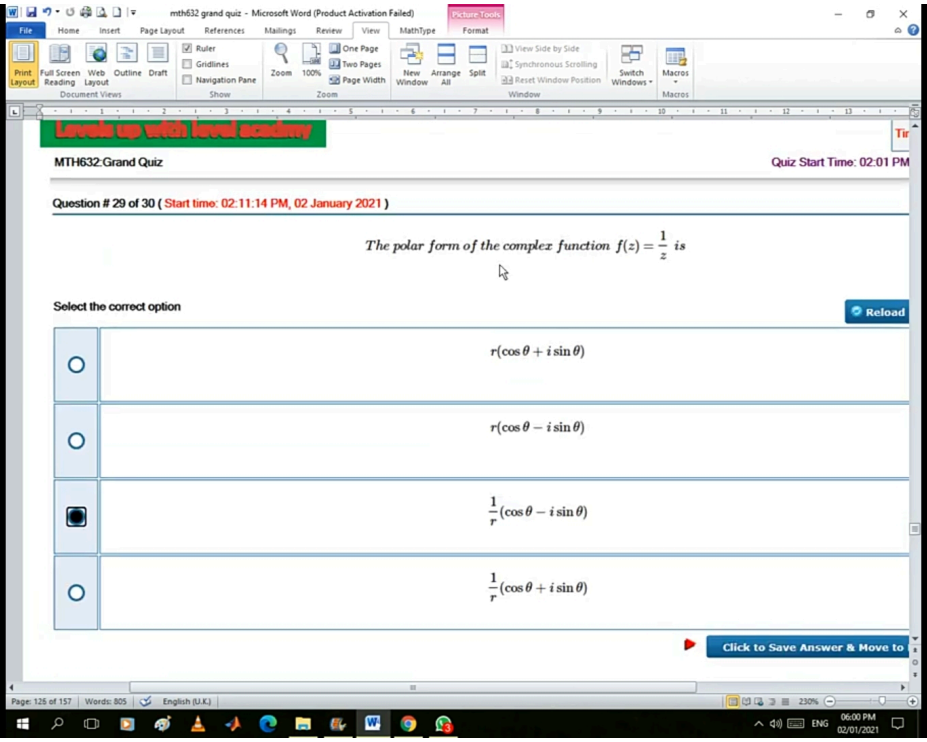
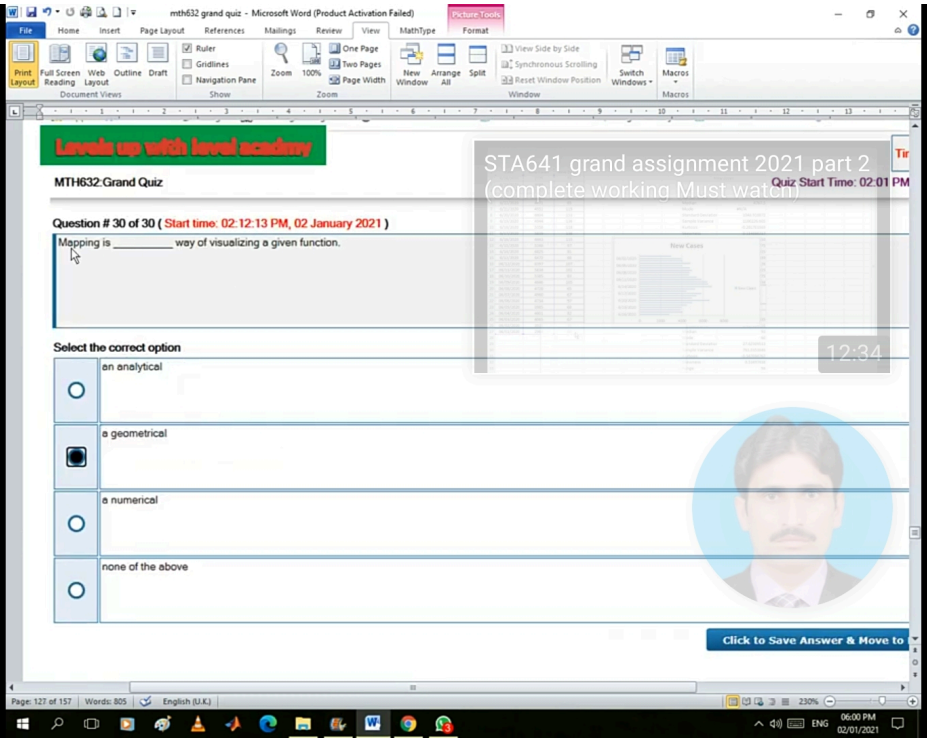

mth632 grand quiz - Microsoft Word (Product Activation Failed)
Levels up with level academy
MTH632:Grand Quiz
Quiz Start Time: 02:01 PM
Question # 29 of 30 (Start time: 02:11:14 PM, 02 January 2021)
The polar form of the complex function $f(z) = \frac{1}{z}$ is
Select the correct option
Reload
$r(\cos\theta + i\sin\theta)$
$r(\cos\theta - i\sin\theta)$
$\frac{1}{r}(\cos\theta - i\sin\theta)$
$\frac{1}{r}(\cos\theta + i\sin\theta)$
Click to Save Answer & Move to
Page: 126 of 157
Words: 805
English (U.K.)
230%
06:00 PM
02/01/2021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STA641 grand assignment 2021 part 2
(complete working Must watch)
MTH632:Grand Quiz
Quiz Start Time: 02:01 PM
Question # 30 of 30 (Start time: 02:12:13 PM, 02 January 2021)
Mapping is _____ way of visualizing a given function.
Select the correct option
an analytical
a geometrical
a numerical
none of the above
Click to Save Answer & Move to
12:34