## **RIZ MUGHAL**

# QUIZ MASTER

## MTH401(41 TO 44)

100% correct solution.

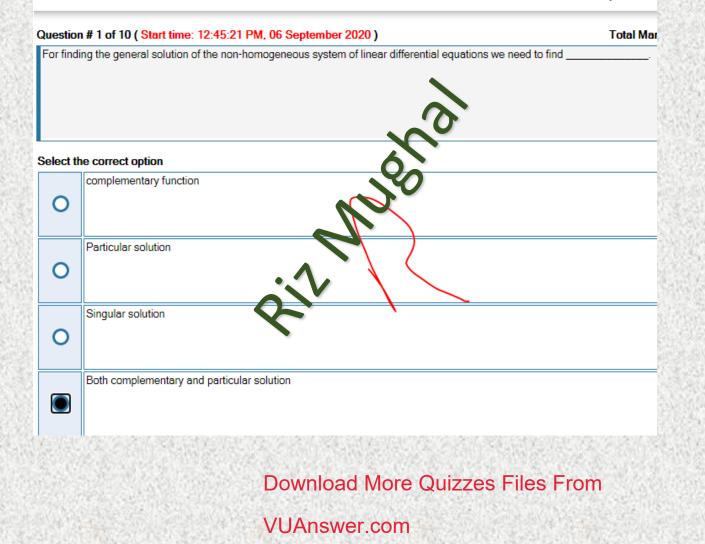
For more information you can visit my channel and for any type of help related to CS619 you can contact me.

### **YOUTUBE CHANNEL:**

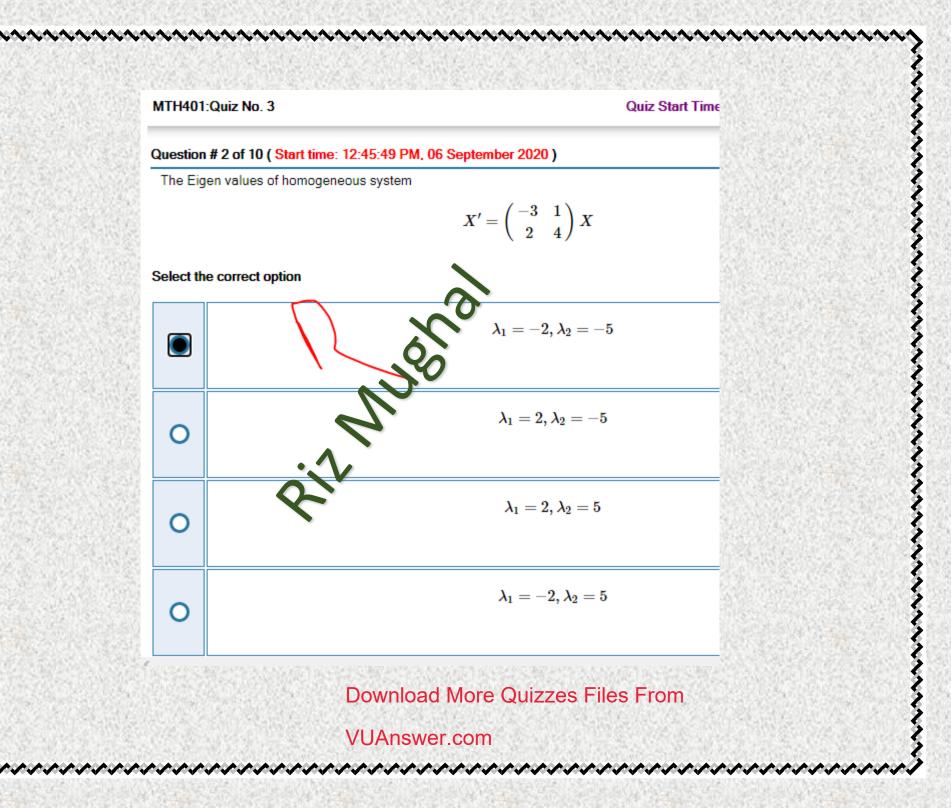
https://www.youtube.com/channel/UCINsFwDiB62SValCcPDZbRQ/playlists

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#### Quiz Start Time: 12:45 PM, 06 September :



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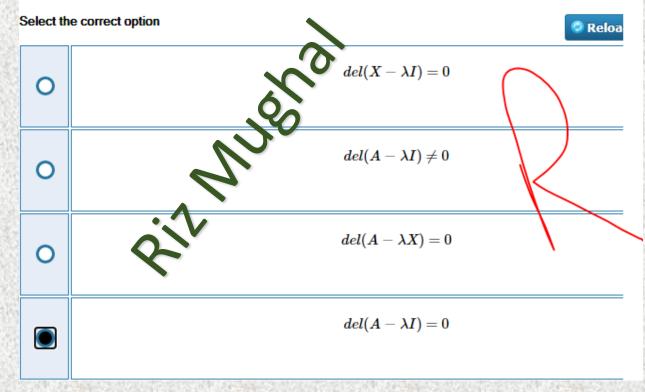
MTH401:Quiz No. 3 Quiz Start Question # 3 of 10 (Start time: 12:46:13 PM, 06 September 2020) If the coefficient matrix A in the homogeneous system of differential equations  $\frac{dX}{dt} = AX$ Select the correct option real 0 imaginary both real and imaginary 0 none of them 0

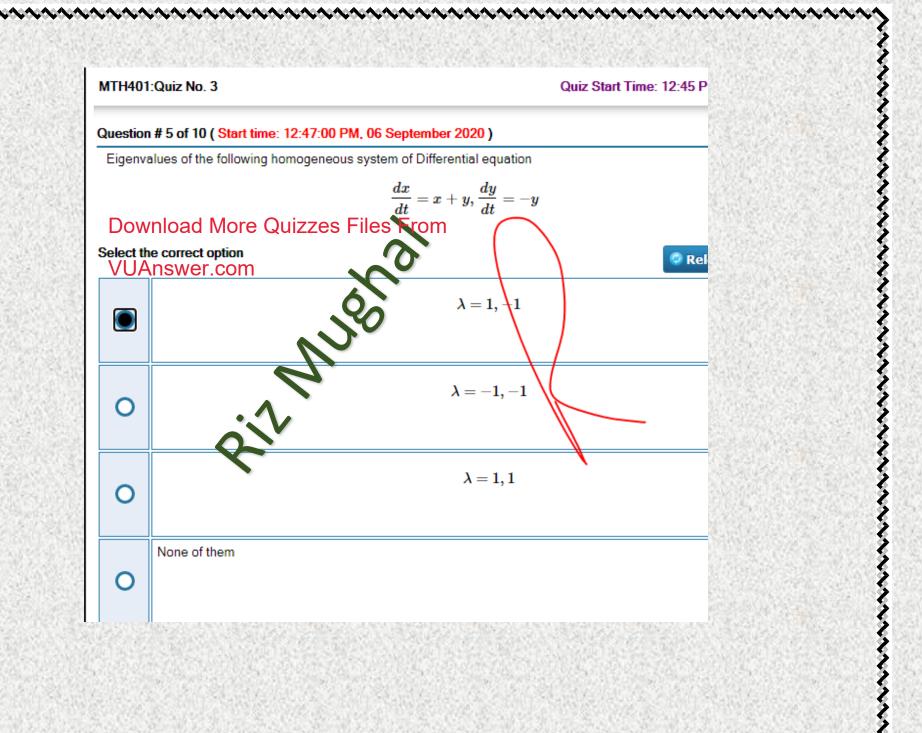
Quiz Start Time: 12:45 PM,

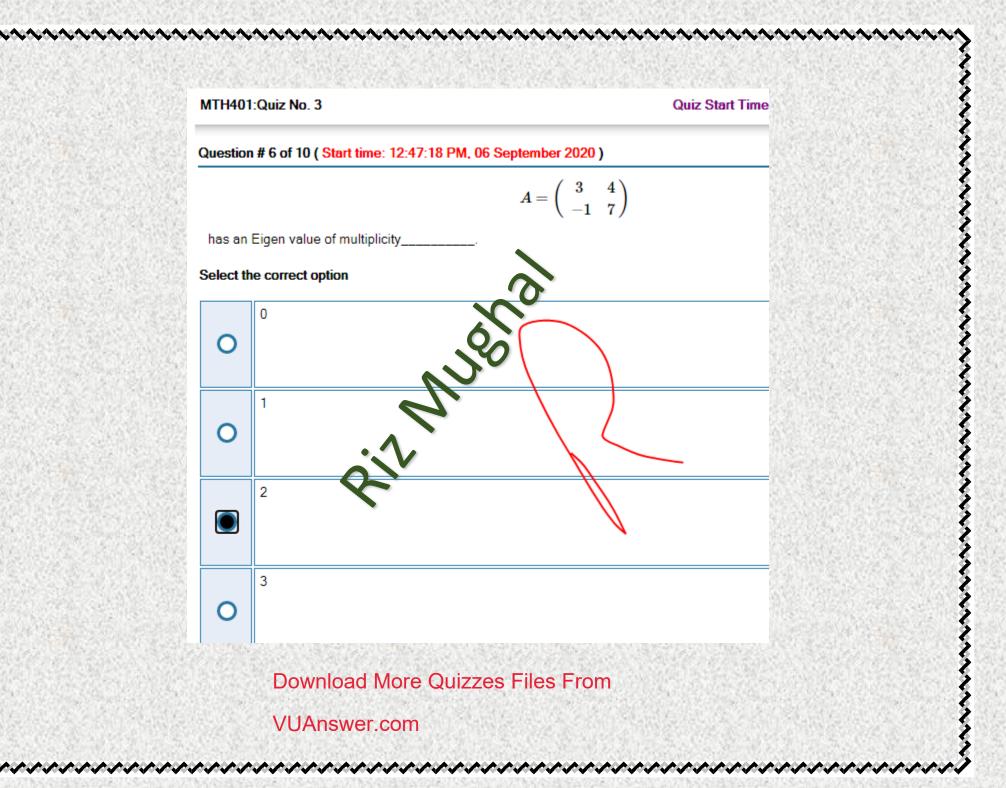
Question # 4 of 10 (Start time: 12:46:40 PM, 06 September 2020)

The characteristic equation of 1st order homogeneous differential equation

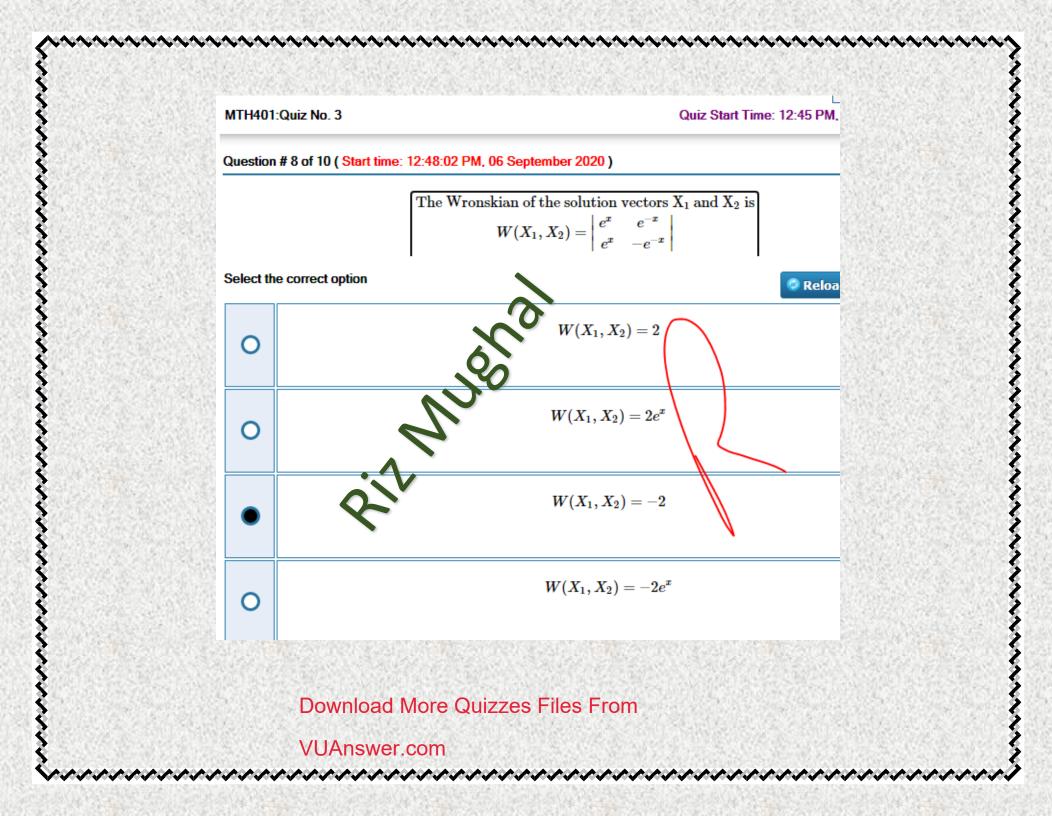
$$\frac{dX}{dX} = AX$$
 is

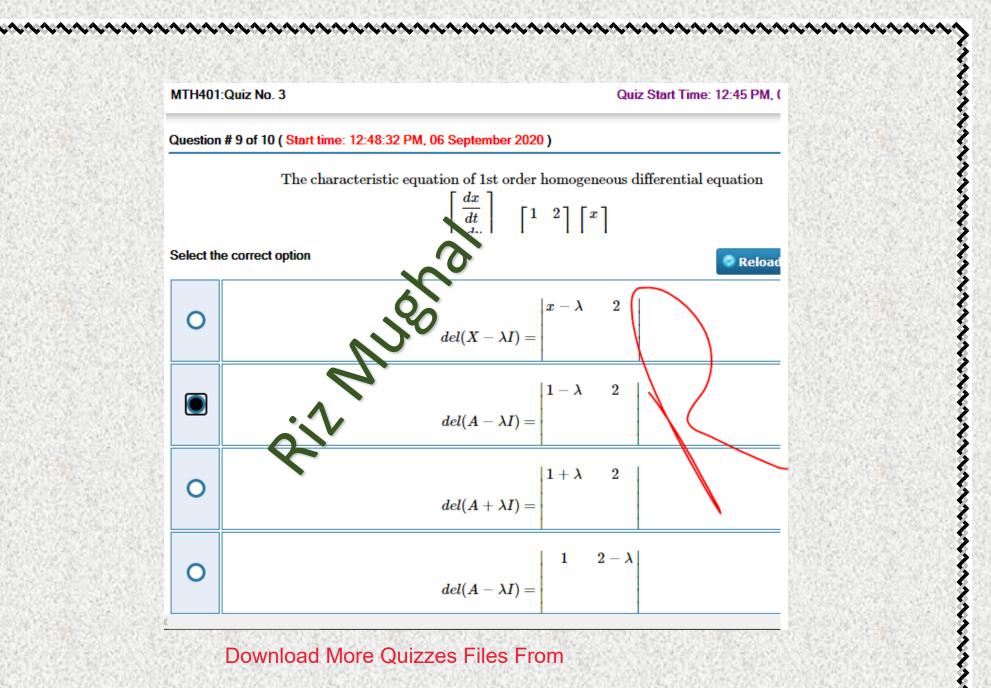




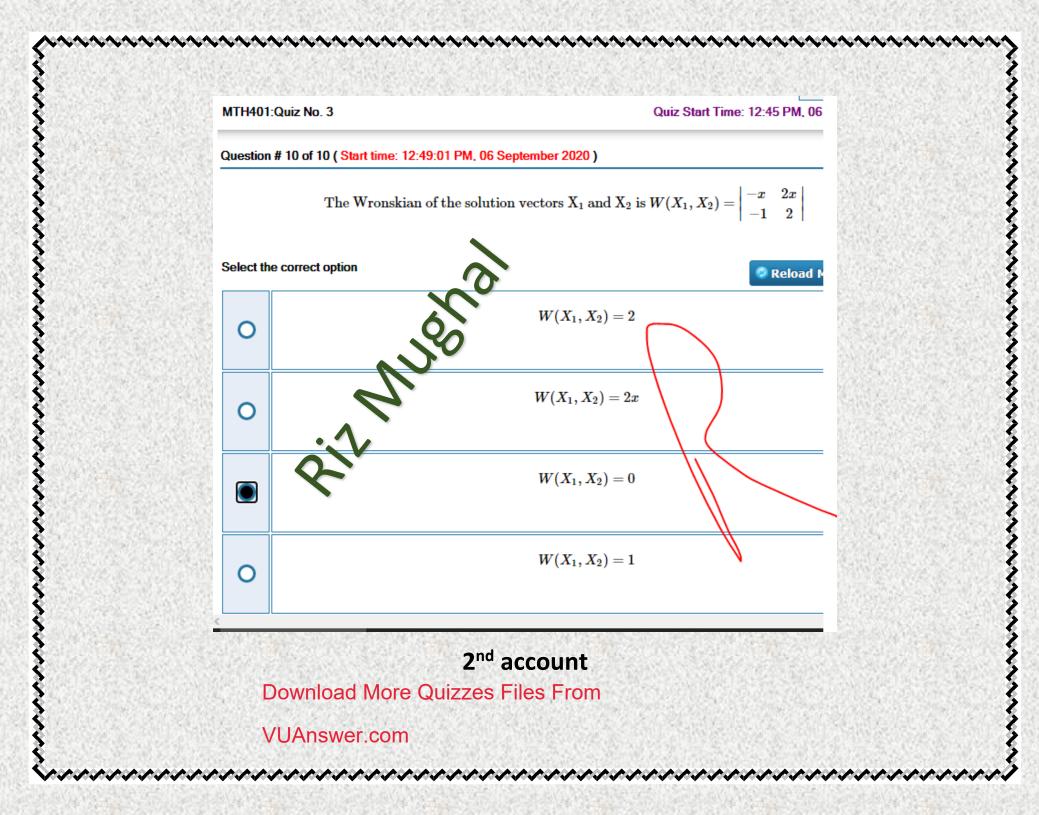






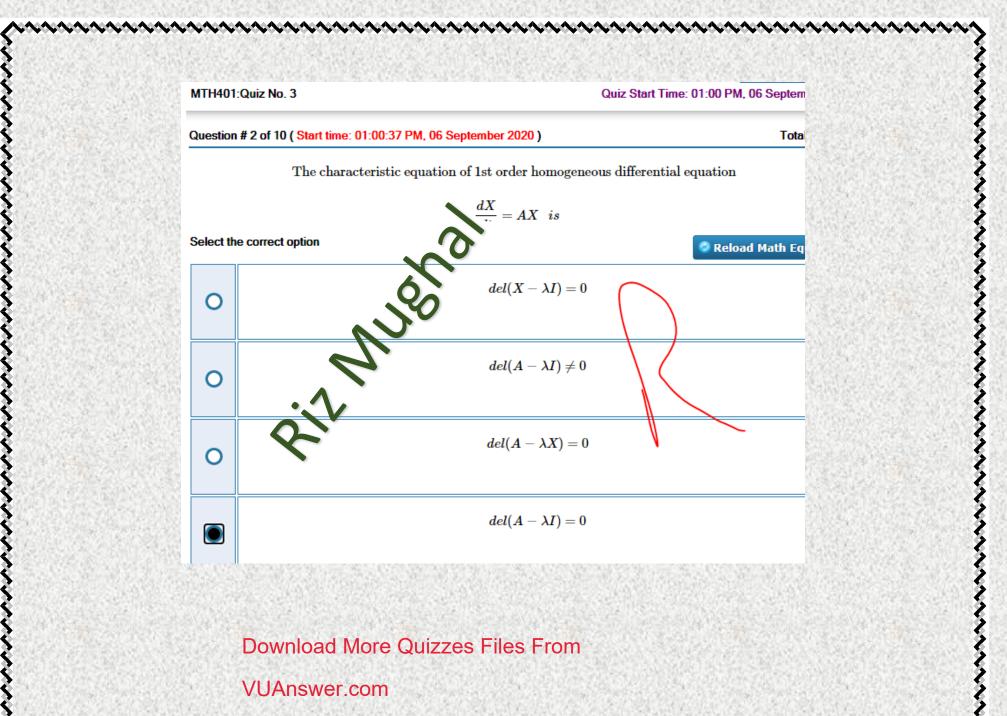


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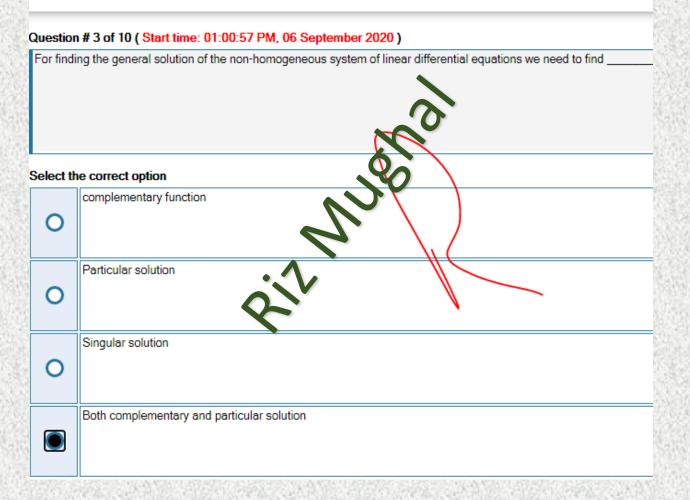
# MTH401:Quiz No. 3 Quiz Start Time: Question # 1 of 10 ( Start time: 01:00:16 PM, 06 September 2020 ) The vectors $X_1=\left(egin{array}{c}1\\2\end{array} ight)e^{2t}, X_2=\left(egin{array}{c}2\\4\end{array} ight)e^{2t}$ Select the correct option linear dependent linear independent 0

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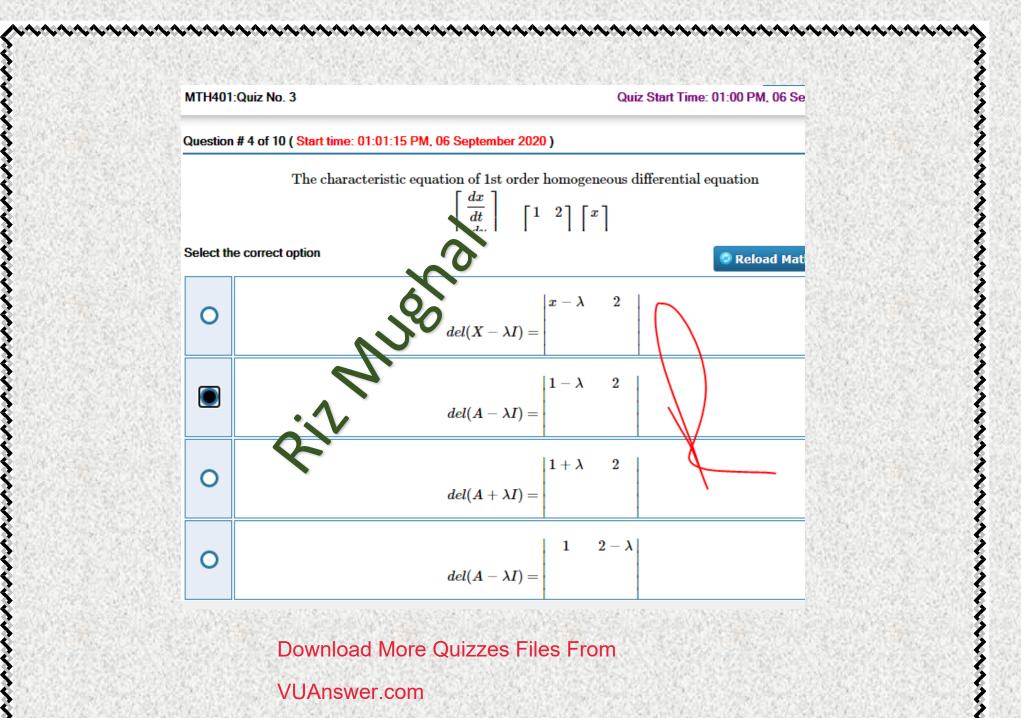
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#### Quiz Start Time: 01:00 PM, 06 Se



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#### Quiz Start Time:

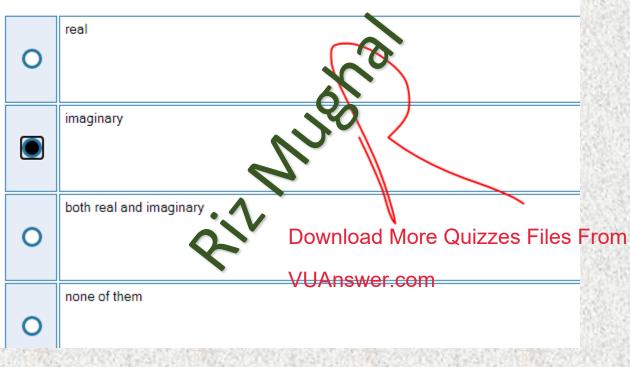
Question # 5 of 10 (Start time: 01:01:36 PM, 06 September 2020)

If the coefficient matrix A in the homogeneous system of differential equations

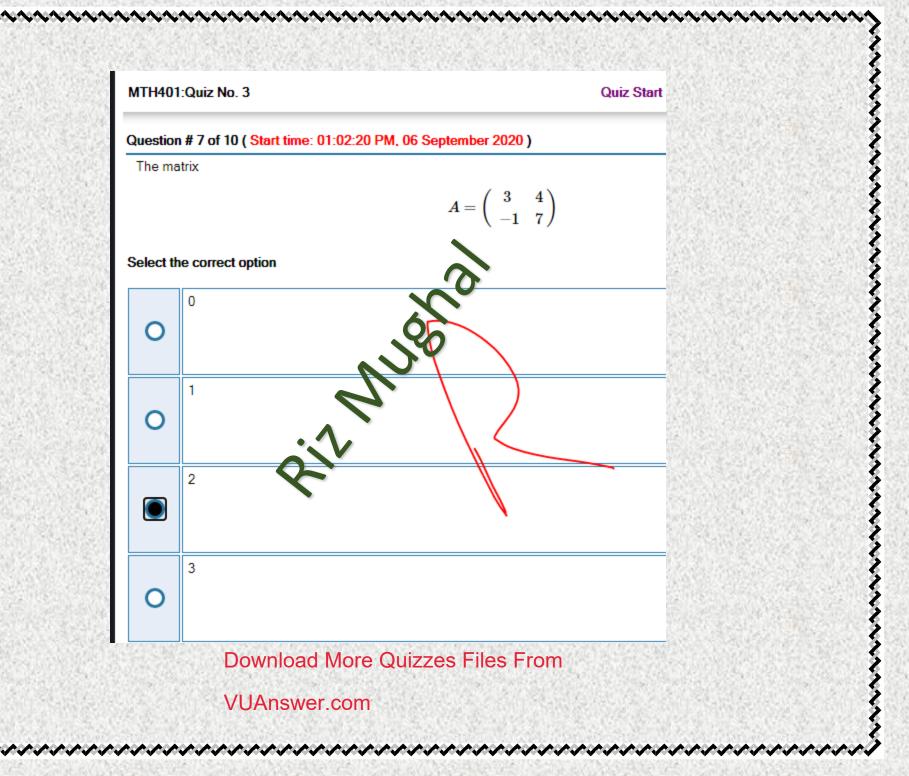
$$\frac{dX}{dt} = AX$$

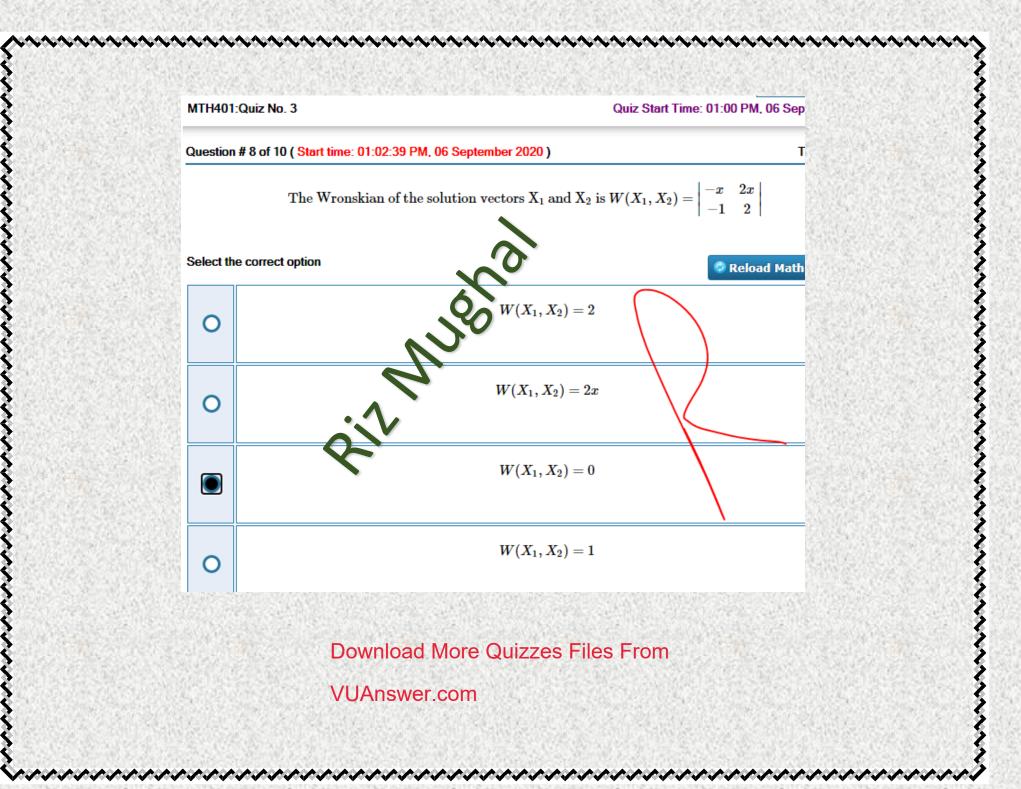
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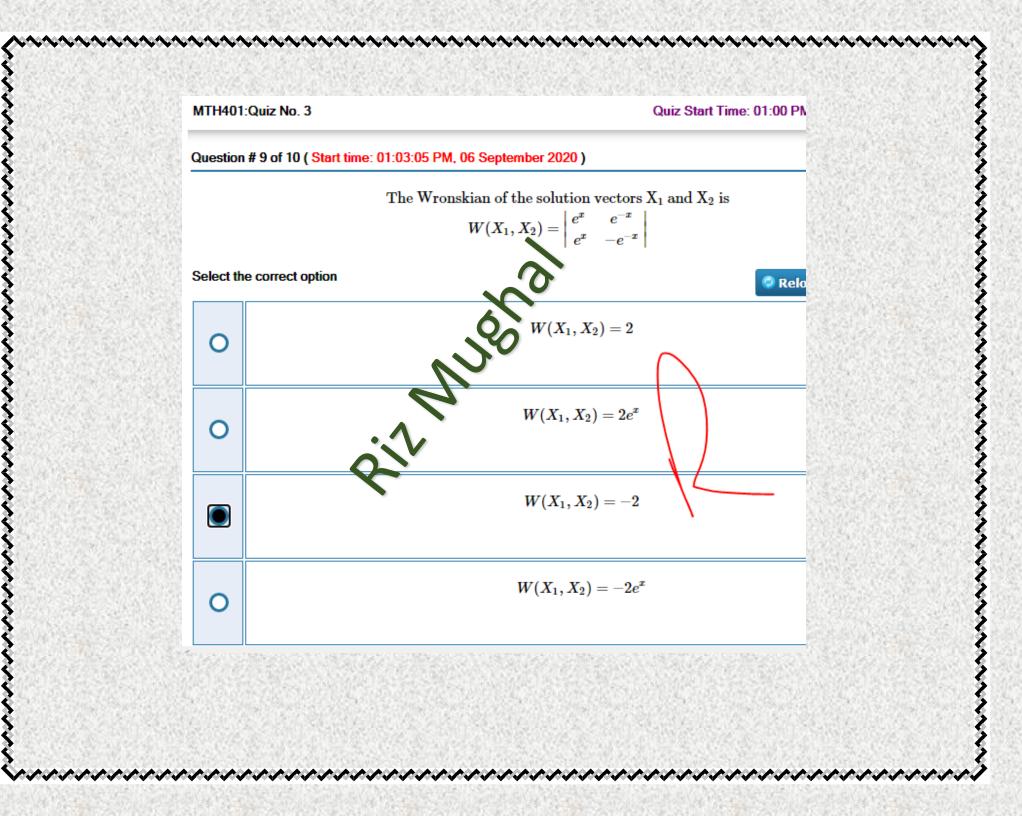
#### Select the correct option

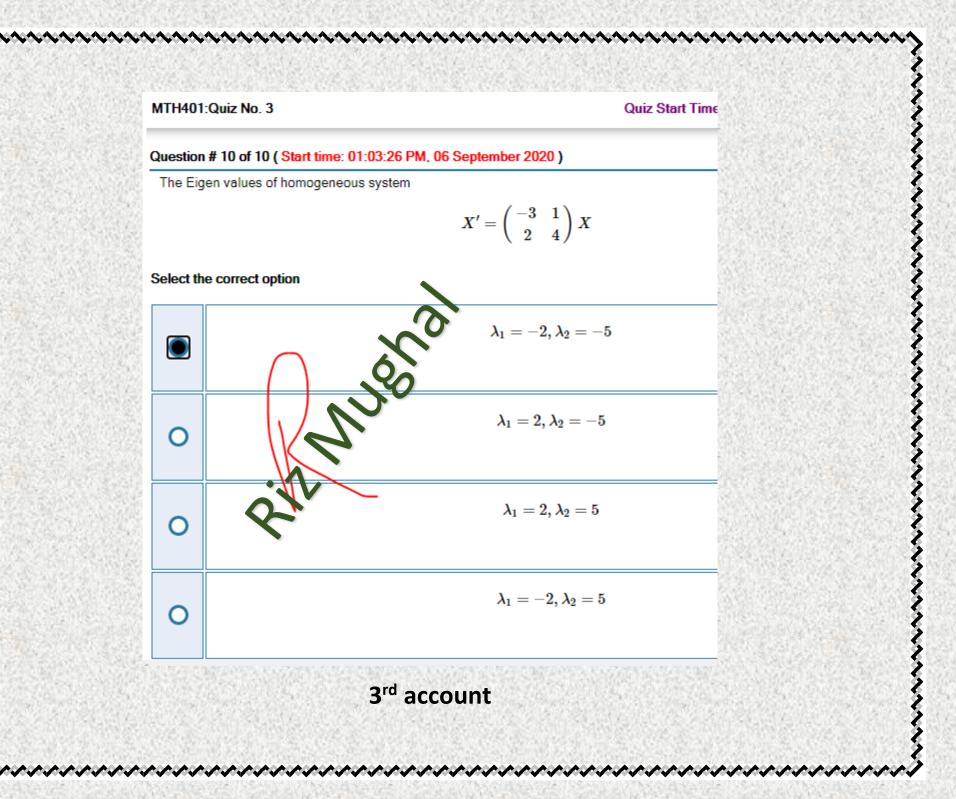








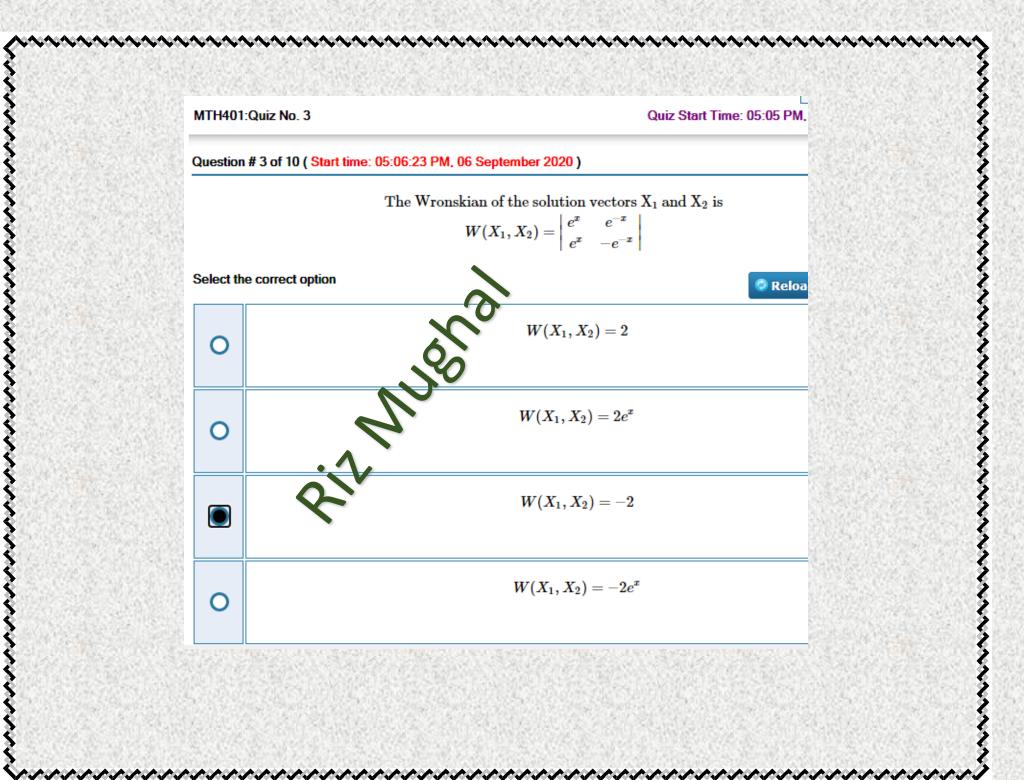


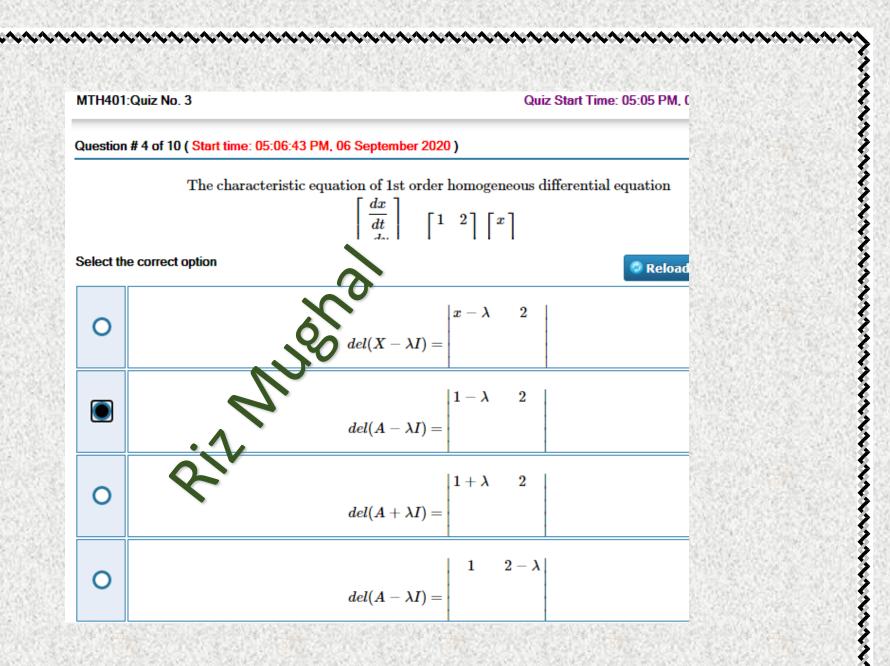


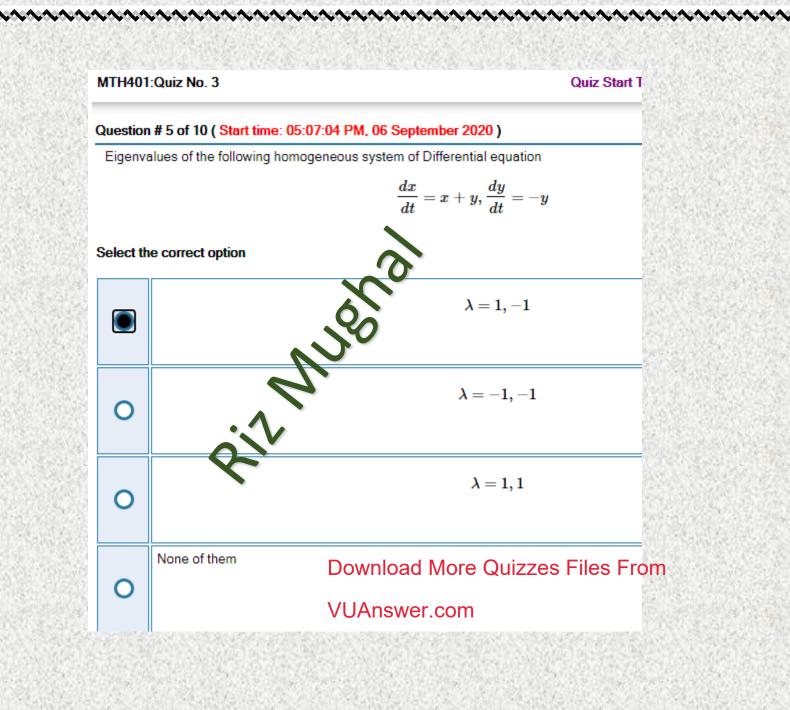
MTH401:Quiz No. 3 Quiz Star Question # 1 of 10 ( Start time: 05:05:46 PM, 06 September 2020 ) If the coefficient matrix A in the homogeneous system of differential equations  $\frac{dX}{dt} = AX$ Select the correct option real 0 imaginary both real and imag 0 none of them 0

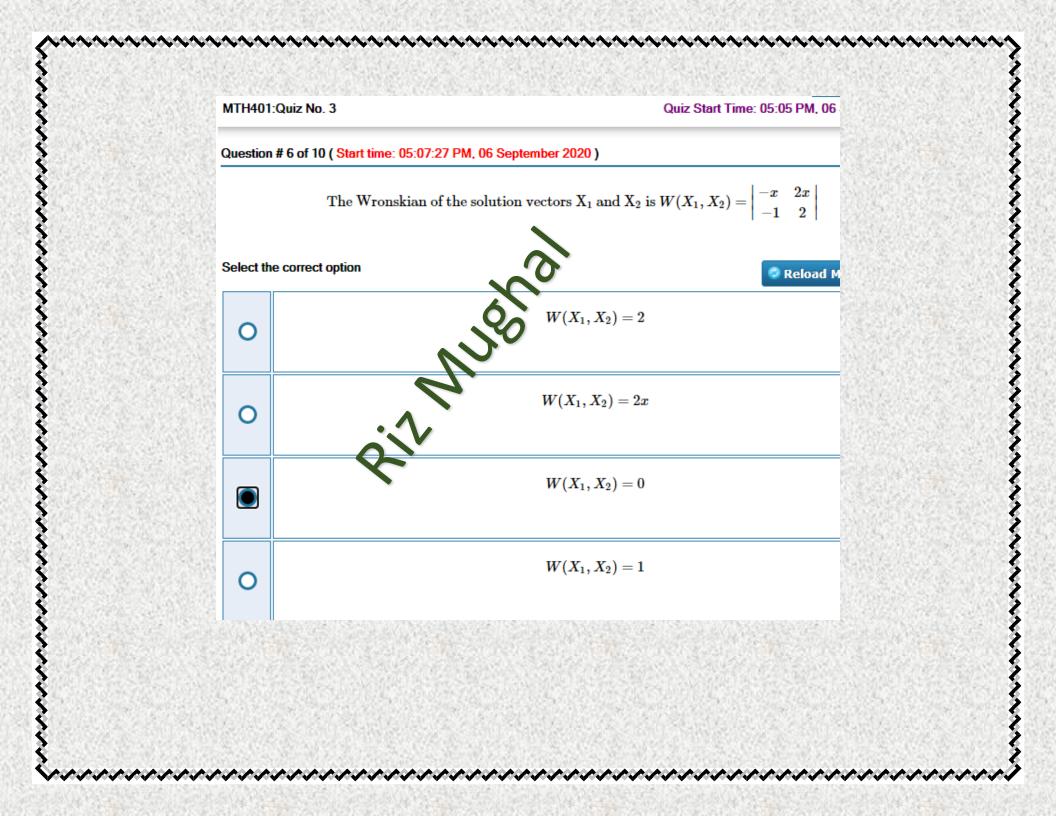
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MTH401:Quiz No. 3 Qui Question # 2 of 10 ( Start time: 05:06:06 PM, 06 September 2020 )  $A=\left(egin{array}{cc} 3 & 4 \ -1 & 7 \end{array}
ight)$ has an Eigen value of multiplicity\_ 60 Select the correct option 0 0 1 0 2 3 O









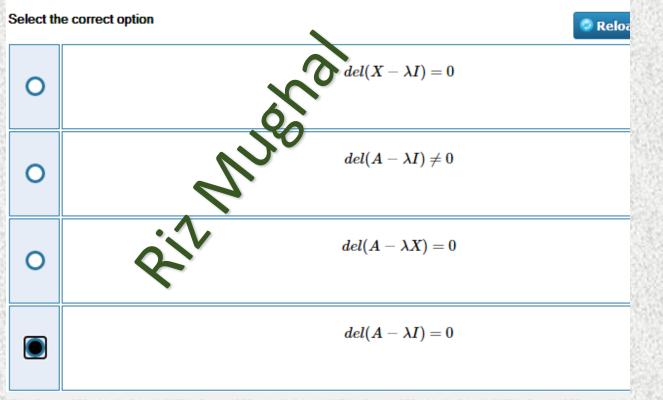
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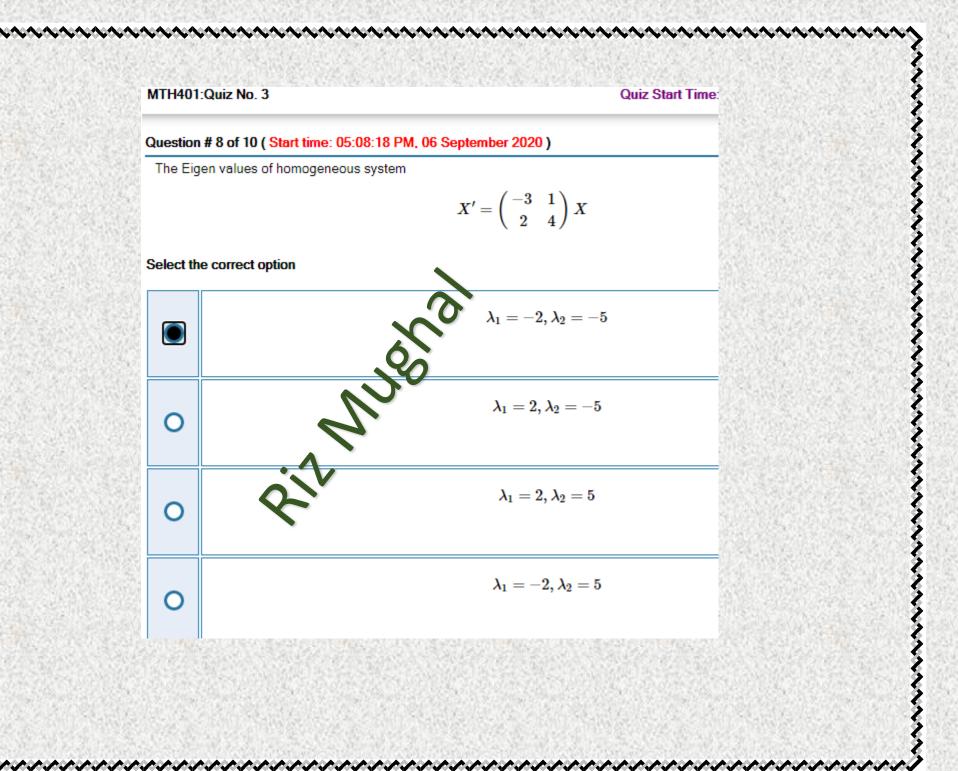
Quiz Start Time: 05:05 PM

Question # 7 of 10 ( Start time: 05:07:56 PM, 06 September 2020 )

The characteristic equation of 1st order homogeneous differential equation

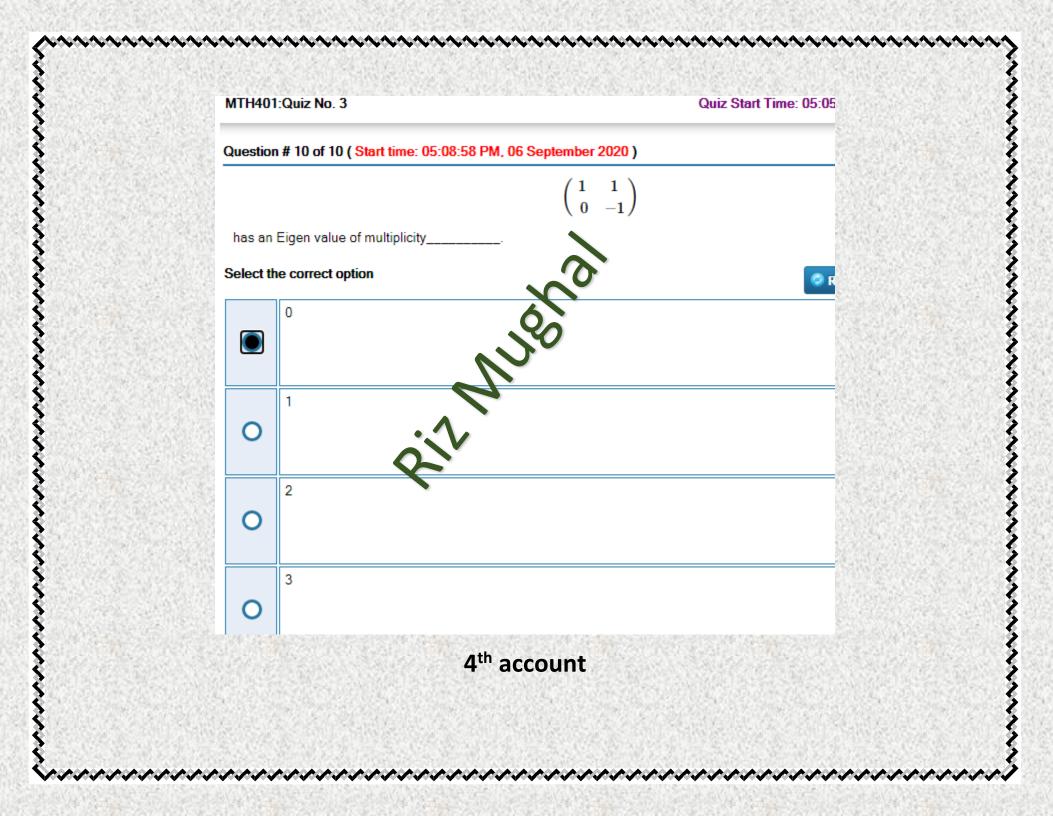
$$\frac{dX}{dX} = AX$$
 is

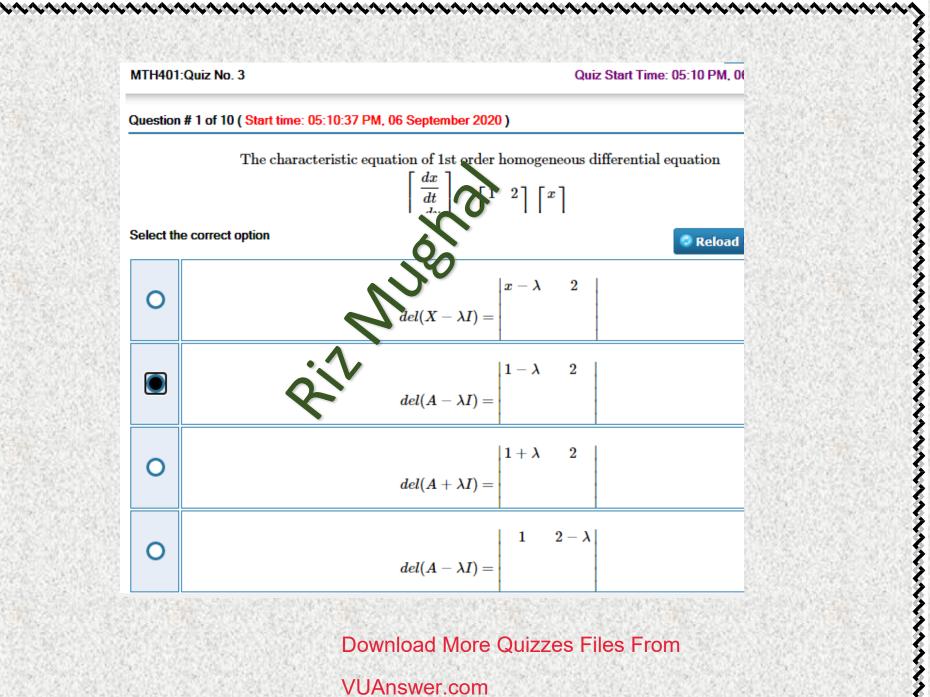


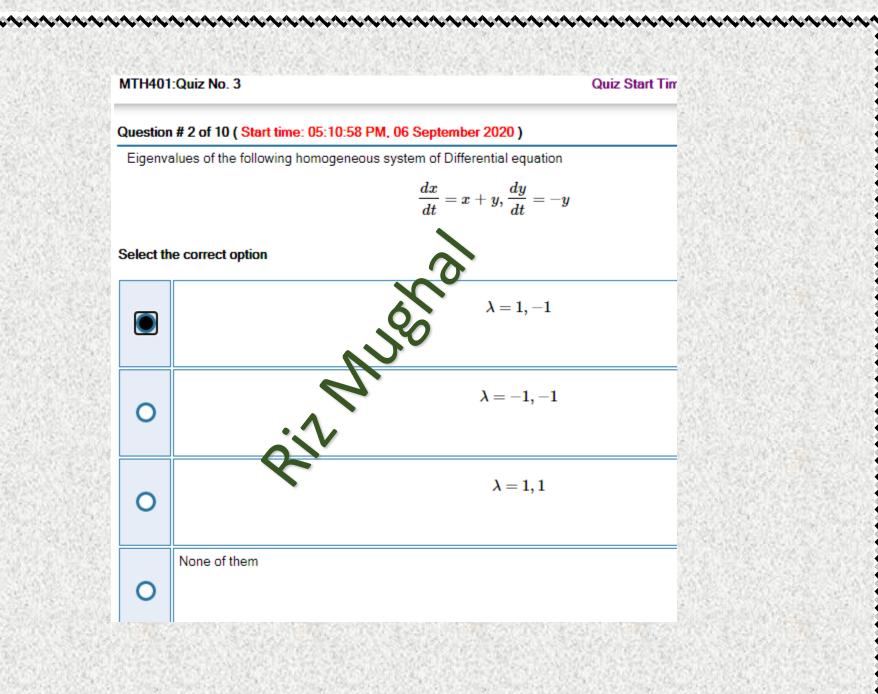


MTH401:Quiz No. 3 Quiz Start Time: 05:05 PM, 06 Septer Question # 9 of 10 (Start time: 05:08:39 PM, 06 September 2020) Tot For finding the general solution of the non-homogeneous system of linear differential equations we need to find Select the correct option complementary function Ο Particular solution Ο Singular solution **Download More Quizzes Files From** 0 VUAnswer.com Both complementary and particular solution 

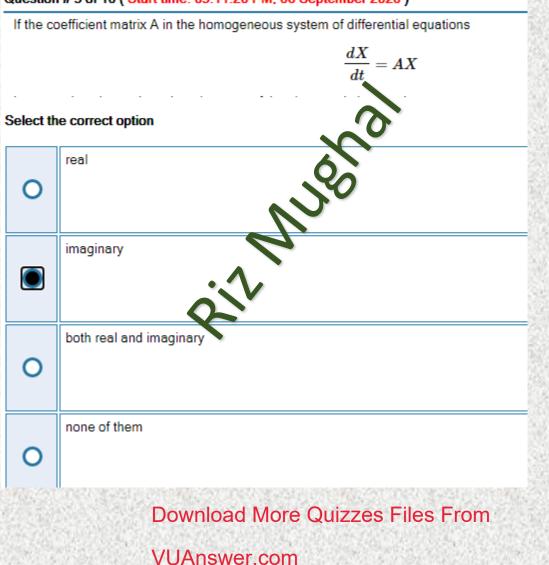
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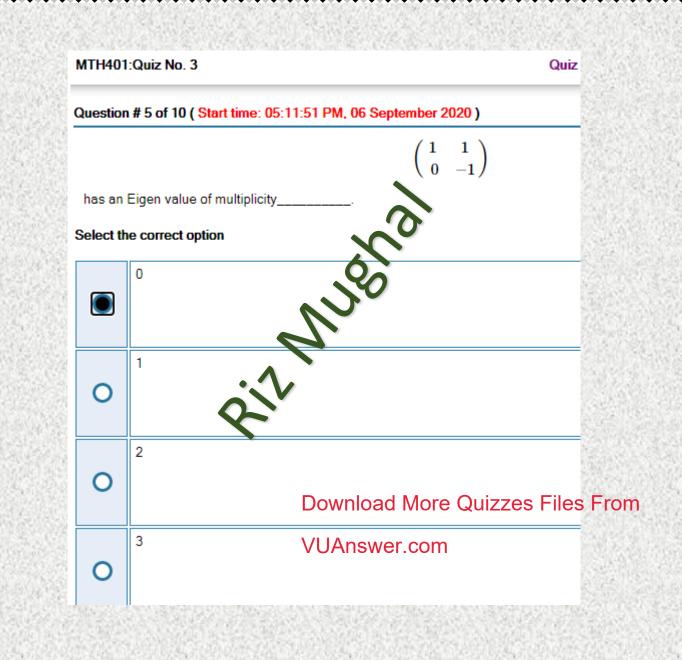


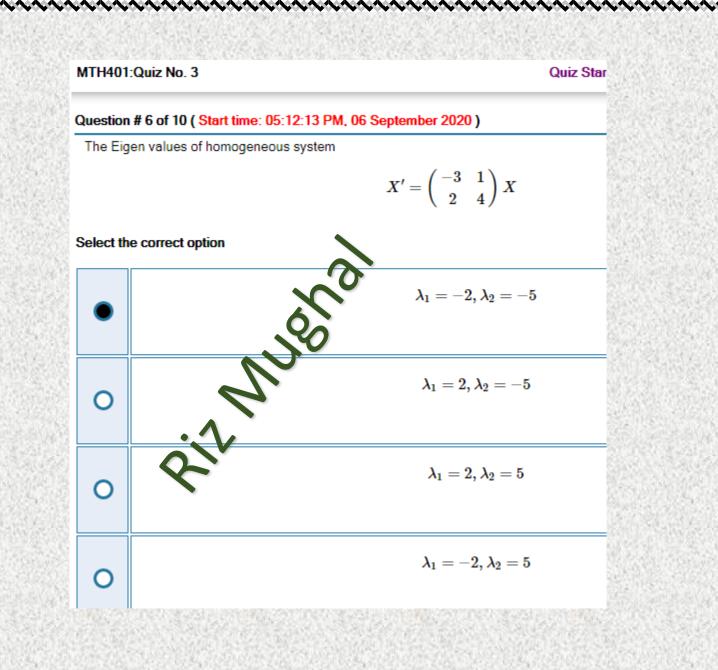
# MTH401:Quiz No. 3 Question # 3 of 10 ( Start time: 05:11:20 PM, 06 September 2020 )

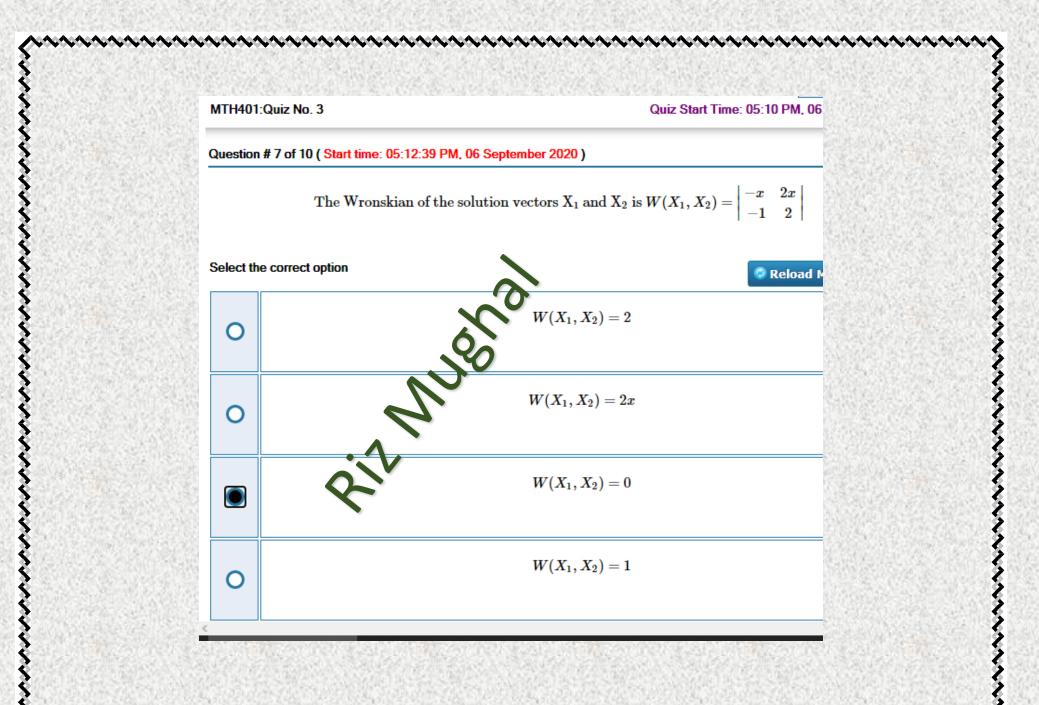


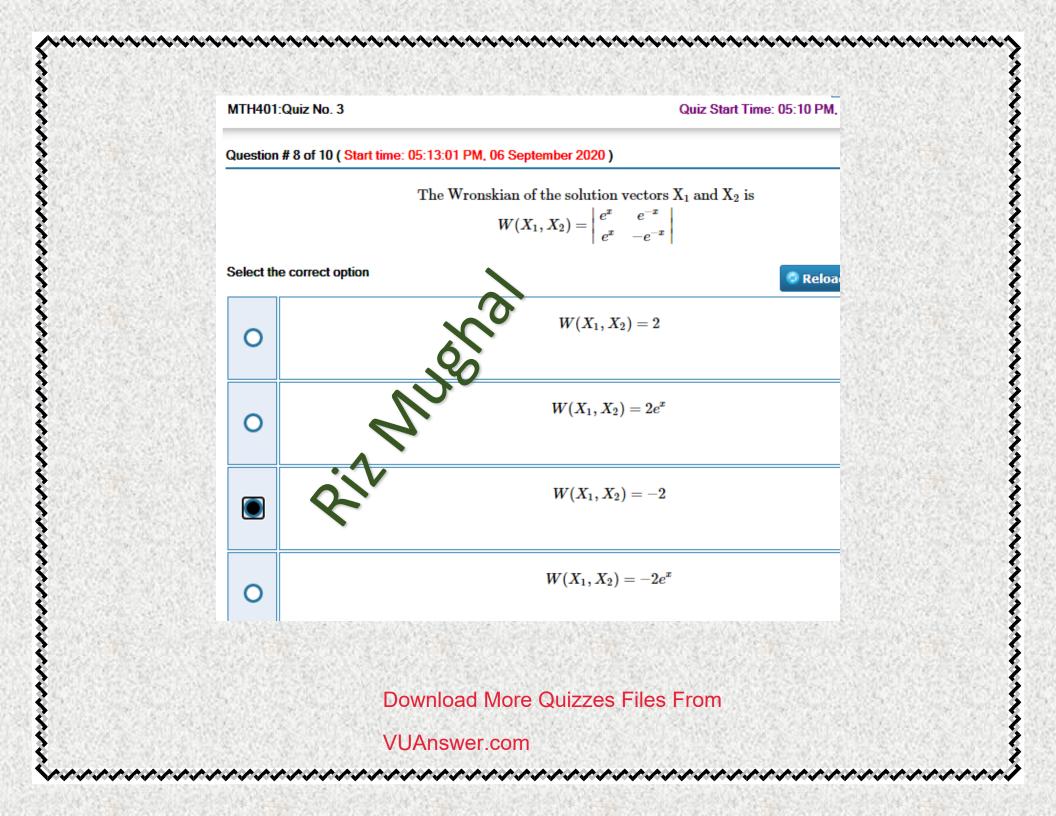
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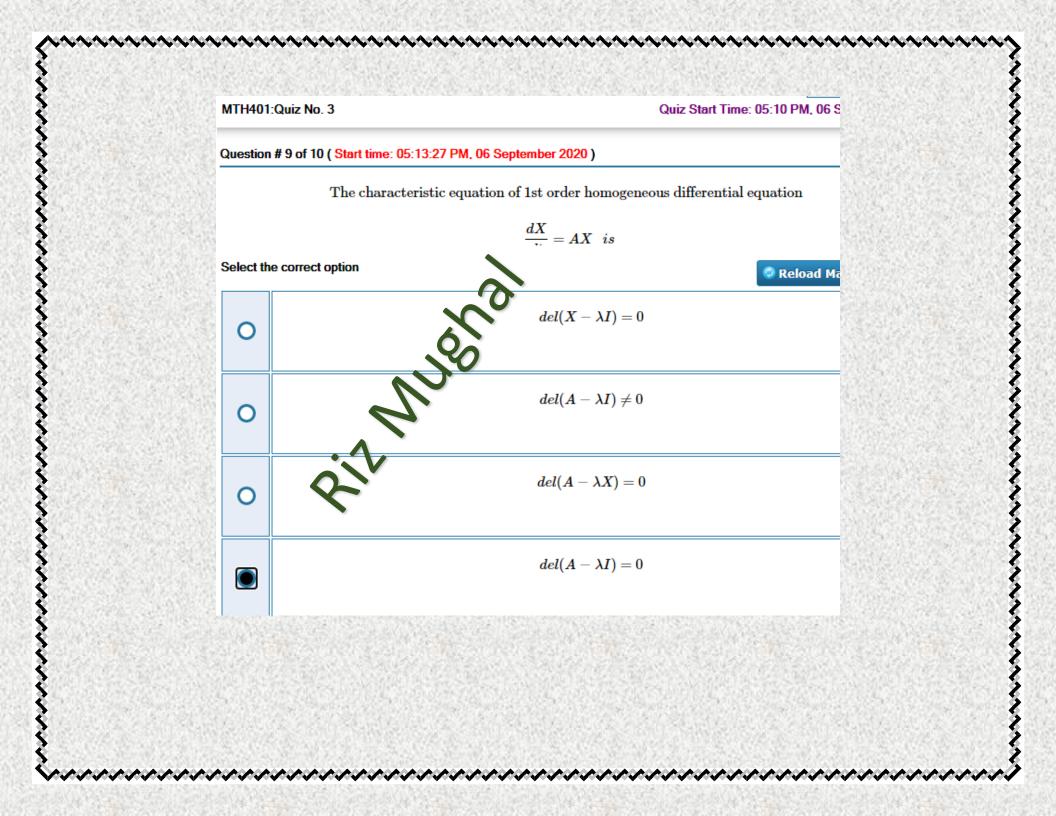


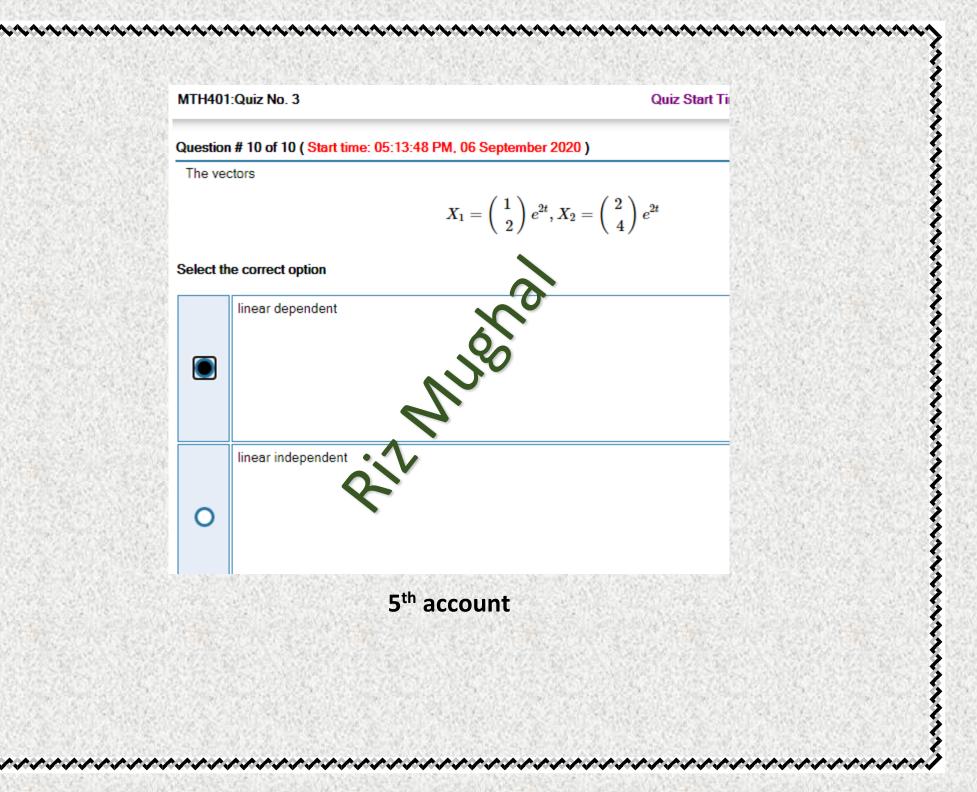












Quiz Sta MTH401:Quiz No. 3 Question # 1 of 10 ( Start time: 05:15:05 PM, 06 September 2020 ) The matrix  $A=\left(egin{array}{cc} 3 & 4 \ -1 & 7 \end{array}
ight)$ 1000 Select the correct option 0 0 0 2 3 0 

MTH401:Quiz No. 3 Quiz Sta Question # 2 of 10 ( Start time: 05:15:20 PM, 06 September 2020 ) If Wroskian of the solution vectors  $X_1 \& X_2$ is non zero then vectors are \_ 1849 Select the correct option parallel Ο perpendicular 0 linear dependent 0 linear independent 

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