

King Fahd University of Petroleum and Minerals
Math. & Stat. Department
171-Math 202 Quiz (3)

Name	ID	SEC
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Q1) Verify that $y = c_1e^{2x} + c_2e^{5x} + 6e^x$ is the general solution of the DE
 $y'' - 7y' + 10y = 24e^x$.

See the back for Question 2.

Q2) Given that $y = e^{x/3}$ is a solution of the DE $6y'' + y' - y = 0$. Use reduction of order to reduce the given DE into an equation of the first order. Then find a second solution. (You may use the formula.)