Quiz	No:	1
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Name:_______ID______Math202

Section_____

Q1. Given the Initial Value Problem $dy/dx = xy^{-1/2}$, y(3) = 1. Answer the following questions:

Does the IVP has a unique solution? Use theorem to justify your answer.

Q2. Verify that $y = e^{3x} \cos 2x$ is an explicit solution of y'' - 6y' + 13y = 0. Assume an appropriate interval I of definition for the solution.

Q3. Solve the IVP $dy/dx = (x+1)^2$, y(0) = 1