

MATH 202.7 (Term 141)

Quiz 1 (Sects. 1.2, 2.2 & 2.3)

Duration: 20mn

Name:

ID number:

1.)(2pts)Do the following IVP have unique solutions?

a.) $\begin{cases} y' = \frac{x}{y} \\ y(1) = 0, \end{cases}$ b.) $\begin{cases} y' = xy^2 \\ y(0) = 0. \end{cases}$

2.)(4pts)Solve the DE: $y^2 e^x dy = (y^2 - 1)dx$.

3.)(4pts)Solve the DE: $(x - 1)dy + (y - x^2 + 1)dx = 0$.
