Serial:

QUIZ#1 Math202, sec 11 Net Time Allowed: 25 minutes

Name:

ID # :

Exercise1:

Verify that $e^y = y - x^2 + C$ is an implicit solution of the differential equation:

$$\frac{dy}{dx} = \frac{2x}{1 - e^y}$$

solution:

Exercise2:

Determine the region on which the differential equation:

$$y' = \frac{\sqrt{y^2 - 1}}{x}$$

has a unique solution through the point (1, -2). solution: