KF

Math 202 (143)
Quiz 1 (1.1-2.3)

Name: ID #: Section #: 02

1. Find the values of *m* such that $y(x) = e^{mx}$ is a solution of $y'' - 5y' + 6y = 0$.
2. Determine whether the differential equation $y' = \sqrt{y^2 - 9}$ possesses a unique solution whose graph passes through the point $(1,4)$. Justify.
3. Solve: $(y + 1)y' = 2x$.
4. Solve: $y' + 2xy = xe^{-x^2}$.