QUIZ♯1 Math202, sec 07

Net Time Allowed: 20 minutes

Name: **ID ♯ :**   section:

Exercise1:
Solve the initial value problem: $\frac{dx}{dt} = 4(x^2 + 1)$, $x(\frac{\pi}{4}) = 1$.

solution:

Exercise2:
Determine whether Theorem 1.1 guarantees that the differential equation $y' = \sqrt{y^2 - 9}$ possesses a unique solution through the point $(2, -3)$. Justify your answer.

solution: