Quiz #3 Math 1131 March 14, 2014

Name: _____ Section: _____

You have 15 minutes to complete the quiz. Please **show work** and then **circle your answer.**

1. (2 points) Let $f(x) = \dfrac{x^2+1}{x}$. Find $f'(x)$.

2. (3 points) Suppose that $x + y = \sqrt{y+1}$. Find $\frac{dy}{dx}$.

Name: _____ Section: _____

3. (2 points) Let $f(x) = \ln\left(\dfrac{e^x}{x}\right)$. Find $f'(x)$

4. (3 points) Let $y = (1-x)^{5x}$. Find $y' = \frac{dy}{dx}$.