Math 105: Fall 2013
Quiz 4: October 11

Good Luck!

1. Calculate the derivative of

$$y = 0.1e^x - \frac{23^x}{4} + 5\ln x - \frac{6}{x} + \frac{7}{x^8} + \cos 9$$

2. Calculate the antiderivative of

$$y = 0.1e^x - \frac{23^x}{4} + \sqrt[5]{x} - \frac{6}{x} + \frac{7}{x^8} + \cos 9$$

OVER

3. Assume that the acceleration due to gravity is -9.8 m/sec^2. A ball is thrown vertically upward from the ground with an initial velocity of 20 m/sec. How high will the ball go?