Quiz #16

Name:	(4)

You must show your work to get full credit.

Compute the following derivatives.

1. 
$$y = 5e^{x} + 3\sqrt{x} - \frac{4}{x^{5}}$$
  $y' = \frac{5e^{x} + 3\sqrt{x} - 4x^{5}}{2\sqrt{x} + 3x^{2} - 4x^{5}}$  or  $y' = 5e^{x} + 3x^{2} - 4x^{5}$  or  $y' = 5e^{x} + 3x^{2} - 4x^{5}$  or  $y' = 5e^{x} + 3x^{2} - 4x^{5}$  or  $y' = 5e^{x} + 3x^{2} + 20x^{5}$ 

$$y' = \frac{5e^{\chi} + \frac{3}{3} \chi^{-\frac{1}{2}} + 20 \chi^{-\frac{1}{2}}}{5e^{\chi} + \frac{3}{2\sqrt{\chi}} + \frac{20}{\chi_6}}$$

**2.** 
$$P(t) = 1,000(1.08)^t$$

$$P'(t) = 1,000 (1.08)^{t} lu(1.08)$$