

**Quiz 8**  
November 20, 2002

Name \_\_\_\_\_

1. Find the derivative (the formula) for each of the following. You may use any method.

(a)  $y = 9 - 4.2 \ln x + 3.3(2.9^x)$ .

(b)  $(3.2x + 5.7)^5$ .

(c)  $1 + 58.32e^{0.65x}$ .

(d)  $3^{\sqrt{x}-3x}$ .

(e)  $\frac{112}{1 + 18.37e^{0.69t}} + 7.39$ .