

Quiz 7
November 20, 2002

Name _____

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

(a) $y = 7x^2 - 12x + 13$.

(b) $f(x) = 3x^{-2} + 5x$.

(c) $h(x) = 5 + 7x^{\frac{1}{2}}$.

2. The projected number of Americans age 65 or older for the years 1995 through 2030 can be modeled by the equation

$$N(x) = 0.03x^2 + 0.315x + 34.23$$

million people where x is the number of years after 2000.

What is the rate of change of the projected number (of people 65 or over) in 2002? in 2012?