

Math 111 Quiz #4 Answers

- (a) 24.8 million monkeys

(b) Growth factor = 0.8 Rate = -19% \Rightarrow The population is decreasing by 19% each year.
- (a) $f(2) = -6^2 = -36$ (Note: This is not the same as $(-6)^2 = 36$.)

(b) y -coordinate: $g(3) = 5(2)^3 = 5(8) = 40$
- (a) Graph I

(b) Graph III

(c) Graph II
- $y = \frac{1}{2}(4)^x$ (Solve the two equations $8 = a \cdot b^2$ and $32 = a \cdot b^3$ to find a and b)