Int Math 2   Name_____

Basic Skills 6
                                        Date_____ Period_____

What is the initial population of the following equations?

1) $f(t) = 8999 \cdot 2.542^t$

Evaluate at the number given

2) $f(3) = 9 \cdot 0.7434^t$

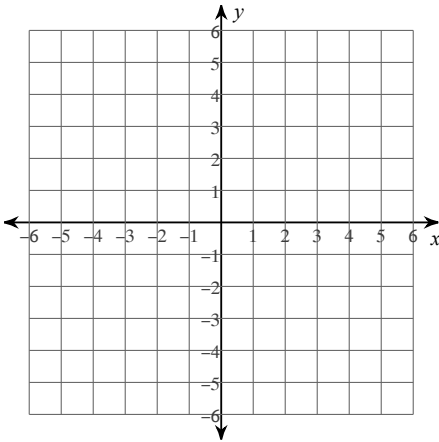Given the formula $f(t) = a(1 + r)^t$ find the rate.

3) $f(t) = 3000 \cdot 0.763^{5t}$

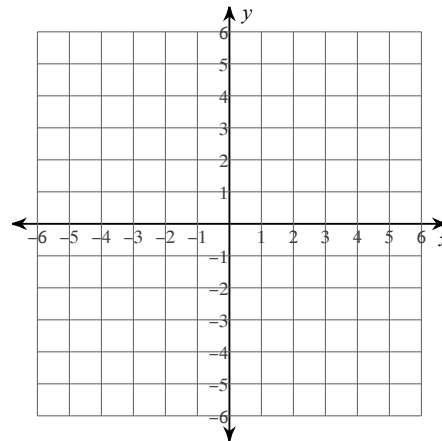Does the following exponential function represent GROWTH or DECAY

4) $f(x) = 7500 \cdot 1.56^{3t}$

Sketch the graph of each line.

5) $y = \dfrac{4}{5}x + 2$

6) $x = -4$

Identify the y-intercept of each.

7) $f(x) = -x^2 - 12x - 26$

8) $f(x) = (x + 2)^2 - 9$

9) $f(x) = (x - 6)(x + 5)$

Write the equation and solve for the amount of money you'll have in 6 months.

10) You earn $3 monthly on an initial deposit of $20.