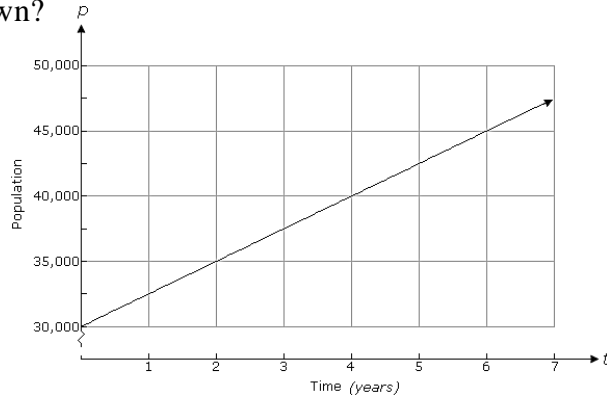


Name: _____

Slope, Intercepts, Writing Equations from Graphs, and Rate of Change – Practice

- 1) The graph shows the population, p , of a town after t years have elapsed. What is the annual rate of growth in the town?



- A.) 2,000 people per year B.) 3,500 people per year
C.) 2,500 people per year D.) 3,000 people per year
- 2) In 1983 a locally-owned car company sold 2,137 cars. In 2006, the car sales rose to 4,172. What was the average rate of change for the total number of cars sold?

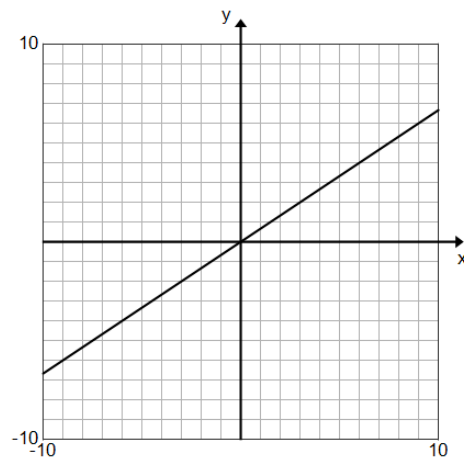
- 3) Use the graph to the right to find the following information about the graph:

x-intercept = _____

y-intercept = _____

Slope = _____

Equation of Line: _____



- 4.) Given the equation: $-3x + 7 = 2y$, find the following:

X-Intercept = _____

Y-Intercept = _____

Slope = _____

Rate of Change = _____

5.) A wheelchair ramp is being built with a slope of $\frac{3}{4}$. If the ramp has to reach height of $4\frac{1}{2}$ feet, what must the horizontal distance of the ramp be?

6.) The table below shows the rate charged to park in a parking garage.

Number of Hours	Cost to Park (\$)
0.5	1.00
1.0	1.75
1.5	2.50
2.0	3.25

Melissa has parked her car in the garage for 2 hours already. How much more will it cost for her car to be parked for 1 additional hour?

A.) \$0.75

B.) \$1.00

C.) \$1.50

D.) \$1.75

7.) Write the equation for each line that is graphed below.

