## Coordinate Plane Worksheet:

1) Graph the equation of the line. Label and assign values to all axes.

$$
(-4,-4), m=0
$$

2) The dollar cost, as a function of time $t$ in hours, for computer repair is given by $R(t)=50 t+35$.
a) What is the slope?
b) In a well-structured sentence, explain what the slope represents in the context of the problem.
c) What is the $y$-intercept?
d) In a well-structured sentence, explain what the $y$-intercept represents in the context of the problem.
3) A real estate office handles an apartment complex with 50 units. When the rent per unit is $\$ 580$ per month, all 50 units are occupied. However, when the rent is $\$ 625$ per month, the average number of occupied units drops to 47 units. Assume that the relationship between the monthly rent p and the demand x is linear.
a) Represent the given information as two ordered pairs of the form $(x, p)$.
b) Write a linear equation in slope intercept form that relates the monthly rent p to the demand x .
Use the equation from part (b) to predict the number of units occupied if the rent is raised to $\$ 655$.
