I. Write a linear equation from the given two points
Exercise 1
Point $(-2,-4) \&$ Point $(2,-2)$
Step 1 Find the slope
Slope, $m=\frac{\text { rise }}{\text { run }}=\frac{y 2-y 1}{x 2-x 1}$

Step 2
Substitute one of the points and slope into the $y=m x+b$

## III. Write a Equation from Description

## Exercise 3

The rent charged for space in an office building is a relationship related to the size of the space rented.
Monthly Rates:
600 square feet for $\$ 750$
900 square feet for $\$ 1150$
Step 1 Identify ordered pairs from the problem

Step 2 Find the slope
Slope, $m=\frac{y 2-y 1}{x 2-x 1}$

Step 3 Substitute one of the points and slope into the $y=m x+b$
II. Write a linear equation from the graph
Exercise 2
Step 1 Find the points

Step 2 Find the slope


Slope, $m=\frac{y 2-y 1}{x 2-x 1}$

Step 3 Substitute one of the points and slope into the $y=m x+b$
IV. Write a equation from the given two points by using Point slope form.
Exercise 4
Point $(-7,4) \&$ Point $(1,-3)$
Step 1 Find the slope
Slope, $m=\frac{y 2-y 1}{x 2-x 1}$

Step 2 Choose one of the known points and label it

Step 3 Plug the slope $\boldsymbol{m}, \boldsymbol{x} \mathbf{1}$, and $\boldsymbol{y} \mathbf{1}$ in to the Point-Slope Form

$$
y-y 1=m(x-x 1)
$$

