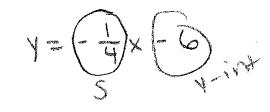
My child completed the study guide.
Parent Signature:
My child used the links on the teacher website to practice for at least 20 minutes.
Parent Signature:

Pre-Algebra Linear Equations Study Guide

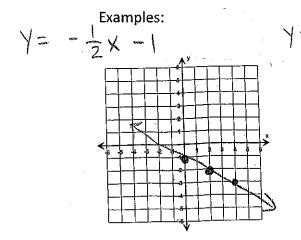
- 1. What is Slope?
 - a. Steepness of a line
 - b. Formula:

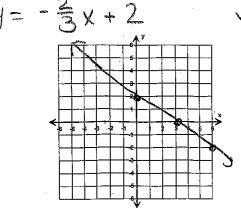
- 2. What are the 4 types of slope? (Draw each one out)
 - a. Positive X
 - b. Negative 7 c. Zero +
- d. Undefined ++

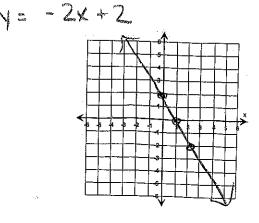
 3. What are two ways you can find slope?
- - a. triangle method
- b. Slope formula
 4. What are the two different forms for equations of lines?
 - a. Standard
 - b. Slope intercept
- 5. What is a proportional relationship (otherwise known as direct variation)?
 - a. When an equation can be written as y = number(multiplied by x)
 - b. The graph goes through the origin
- Slope Intercept Form (y=mx+b)
 - a. Slope = M
 - b. Y-intercept = >



- c. Graphing Slope Intercept Form
 - i. Plot y-intercept (0, number)
 - ii. Use slope to plot next few points



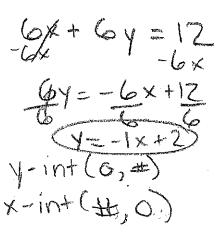




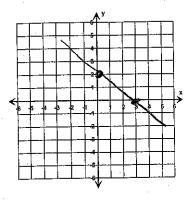
$$\frac{3x-y=6}{3x}$$

 $\sqrt{-3}$ \(\sigma - \sigma \). Use cover up method to find x and y-intercepts to graph

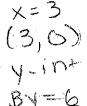
- i. Cover up opposite letter to find each intercept
- ii. Plot those points then draw your line

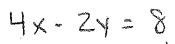


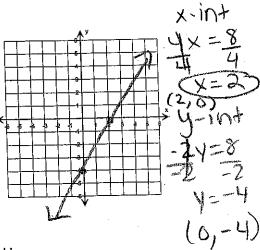
Examples:

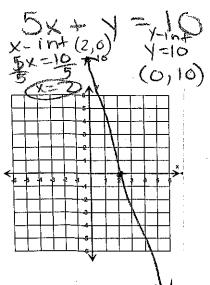


X-int









- 8. Parallel and Perpendicular Lines
 - a. Parallel lines have the Same slope

i. Examples:
$$y=2x$$

 $y=2x+1$

- b. Perpendicular lines have the Opposite recipiosispe
 - i. Examples:

$$\begin{cases} y = -3, \\ y = -\frac{1}{3}x \end{cases}$$