# ALGEBRA II Chapter 2 section 3 Graph Equations of Lines pg. 89

### FOCUS:

How do you graph a linear equation?

#### VOCAB:

Parent Function:
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y - intercept:	/ - intel	rcept:
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Slope - Intercept Form:\_\_\_\_\_

Standard form of a linear equation:\_\_\_\_\_

x - intercept:

## WARM – UP:

Evaluate each expression for x = -1, 0, and 2.

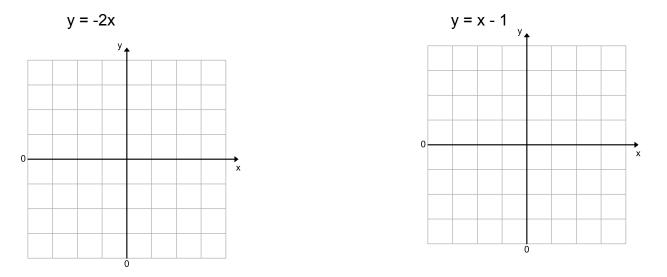
1. 2x +3\_\_\_\_\_

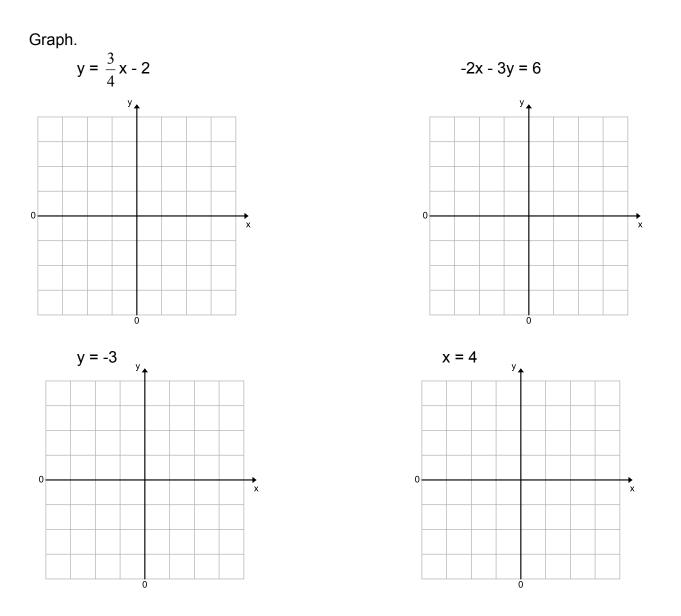
2.  $\frac{2}{3}$ x - 1\_\_\_\_\_

3. In 2005, Carey's Pet Shop had a profit of \$55,500. In 2006, profits were \$38,700. In a graph of the data, is the slope of the segment between 2005 and 2006 positive or negative?

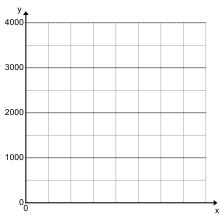
## NOTES:

Graph the equation. Compare the graph with the graph of y = x.





The value y of a copier x years after it was purchased can be modeled by the equation y = 4000 - 600x. Graph the equation. Describe what the y - intercept and slope represent in this situation. Use the graph to estimate the value of the copier after 5 years.



Let's see if you comprehended what we worked on in class...

for homework

Try \_\_\_\_\_