## ALGEBRA II

## Chapter 2 section 3

## Graph Equations of Lines

## pg. 89

## FOCUS:

How do you graph a linear equation?

## VOCAB:

Parent Function: $\qquad$
$y$-intercept: $\qquad$
Slope - Intercept Form: $\qquad$
Standard form of a linear equation: $\qquad$
x - intercept: $\qquad$
WARM - UP:
Evaluate each expression for $x=-1,0$, and 2 .

1. $2 x+3$ $\qquad$ 2. $\frac{2}{3} x-1$
2. 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 $\mathrm{y}=\mathrm{x}$.

$$
y=-2 x
$$




Graph.
$y=\frac{3}{4} x-2$



$$
-2 x-3 y=6
$$



$$
x=4
$$



The value $y$ of a copier $x$ years after it was purchased can be modeled by the equation $y=4000-600 x$. 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...
Try

