## Algebra II

## 3-2

Graphing using

$$
y=m x+b
$$

How can we tell if an equation will graph into a straight line by just looking at the equation?

No junk around the $x$ or $y$

Which of the following equations will graph into a straight line?

1) $y=\frac{1}{3} x-\frac{4}{5}$ yes
2) $y=x^{2}-4$ No, parabola
3) $x=3 \xrightarrow{\text { Les }}$
4) $3 x+2 y=13$ yes
5) $x^{2}+y^{2}=49$ No, circle
6) $y=\sqrt{2 x-1} \quad$ No
7) $y=-1$ Yes
8) $y=|x+2| \quad \mathbf{N}_{0} \quad V$-shape


For each exercise, graph the ordered pairs in the same coordinate plain.(pg 111)

1) $A(1,2)$ $B(0,3)$
$C(3,-2)$
$D(-3,2)$
$E(-4,0)$


Graph each equation.
5) $x-y=4$
$1 x-4=y$
$m=1 \quad b=-4$
$=\frac{1}{1}$


Graph each pair of equations in the same coordinate plane.
Find the coordinates of the point where the graphs intersect.
Then show by substitution that the ceordinates satisfy beth equations.


## Assignment:

Pg. 111
4-38 even
(16 Graphs)
Need: 2 sheets of graph paper

