Algebra II

Graphing using
$y = mx + b$

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

1) $y = \frac{1}{3}x - \frac{4}{5}$ _____

2) $y = x^2 - 4$ _____

3) $x = 3$ _____

4) $3x + 2y = 13$ _____

5) $x^2 + y^2 = 49$ _____

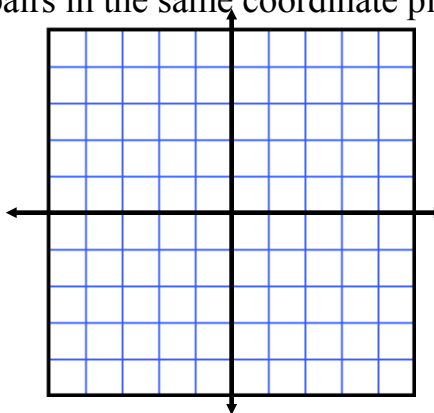6) $y = \sqrt{2x - 1}$ _____

7) $y = -1$ _____

8) $y = |x + 2|$ _____

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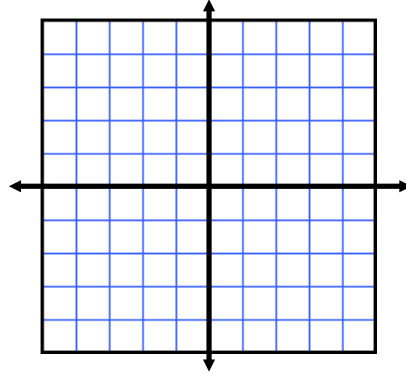by just looking at the equation?

Slope/Intercept form of a line -

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

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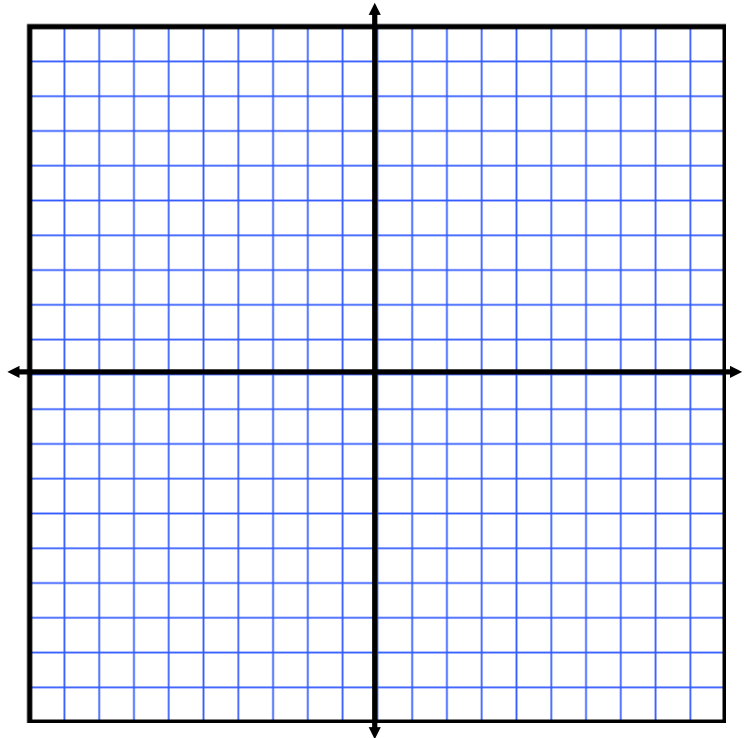 D (-3, 2)
    E (-4, 0)

Graph each equation.

5) $x - y = 4$

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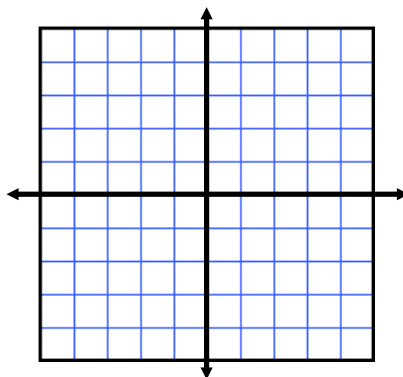Find the coordinates of the point where the graphs intersect.
~~Then show by substitution that the coordinates satisfy both equations.~~

27) $2x + 5y = 0$
     $2x + y = 8$

Graph each equation.

33) $y = |x|$

Assignment:

Pg. 111
4 - 38 even

(16 Graphs)
Need: 2 sheets of graph paper