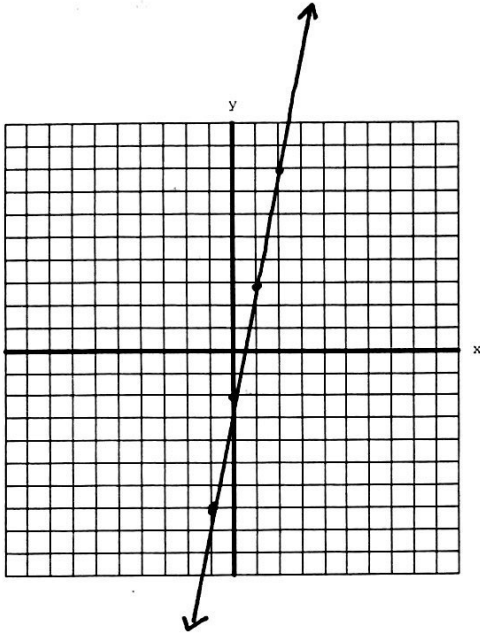


For #1-4

Fill in AT LEAST 5 points on the table, then graph.

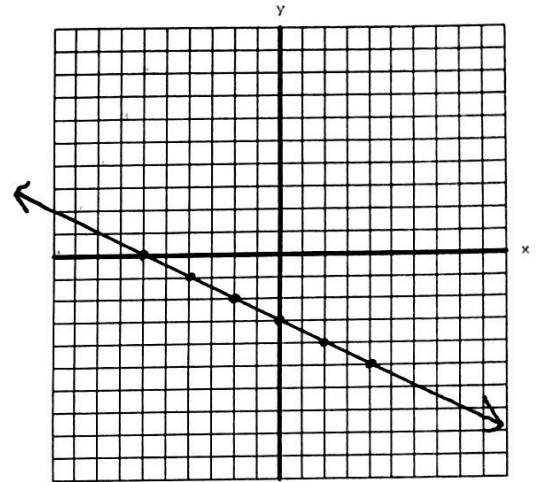
1.  $y = 5x - 2$

X	Y
-2	-12
-1	-7
0	-2
1	3
2	8
3	13



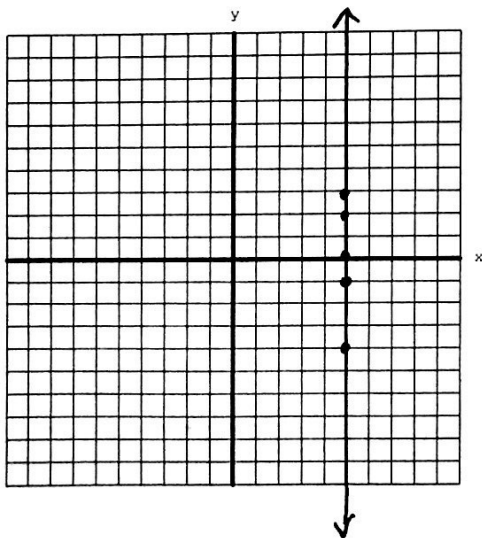
2.  $y = -\frac{1}{2}x - 3$

X	Y
-2	-2
0	-3
2	-4
-4	-1
4	-5
-6	0



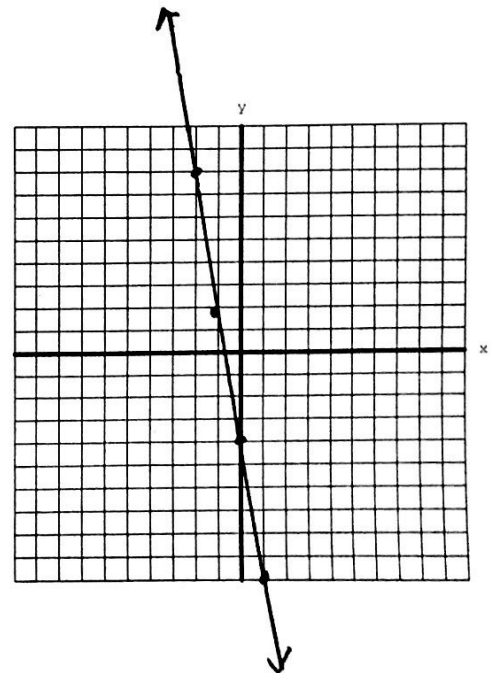
3.  $x = 5$

X	Y
5	3
5	2
5	0
5	-1
5	-4



4.  $\frac{-y}{-1} = \frac{4+6x}{-1}$       $y = -6x - 4$

X	Y
0	-4
1	-10
-1	2
-2	8
-3	14



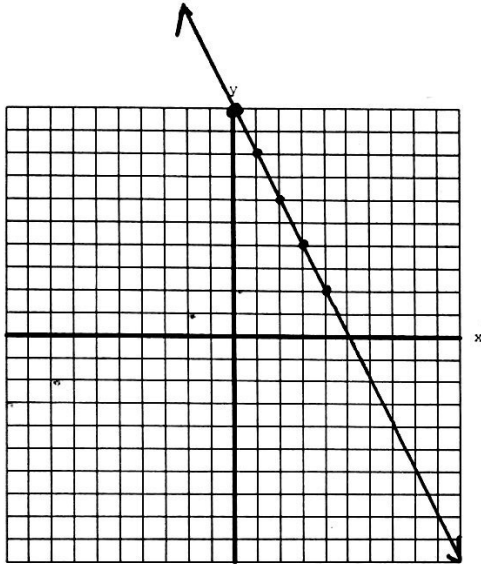
For #5-8:

Write each equation in slope-intercept form, then graph.

5.  $8x + 4y = 40$

$$\frac{4y}{4} = \frac{-8x + 40}{4 \quad 4}$$

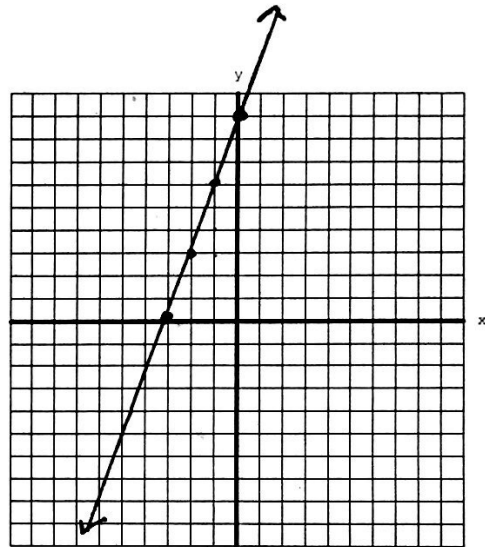
$$y = -2x + 10$$



6.  $6x - 2y = -18$

$$\frac{-2y}{-2} = \frac{-6x - 18}{-2 \quad -2}$$

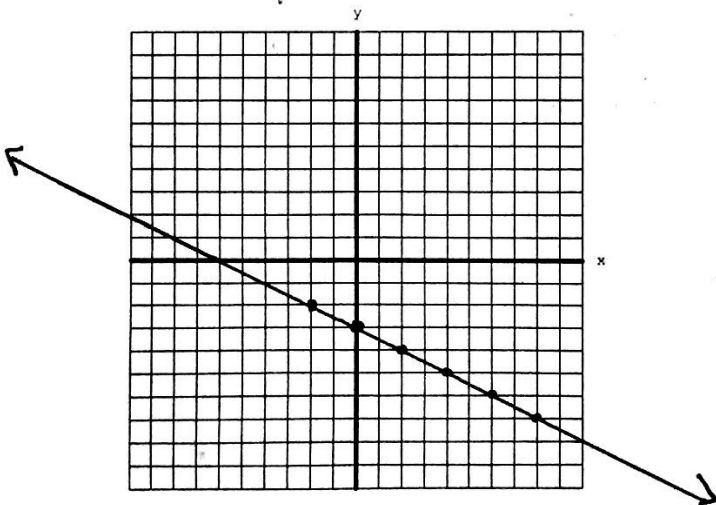
$$y = 3x + 9$$



7.  $2x + 4y = -12$

$$\frac{4y}{4} = \frac{-2x - 12}{4 \quad 4}$$

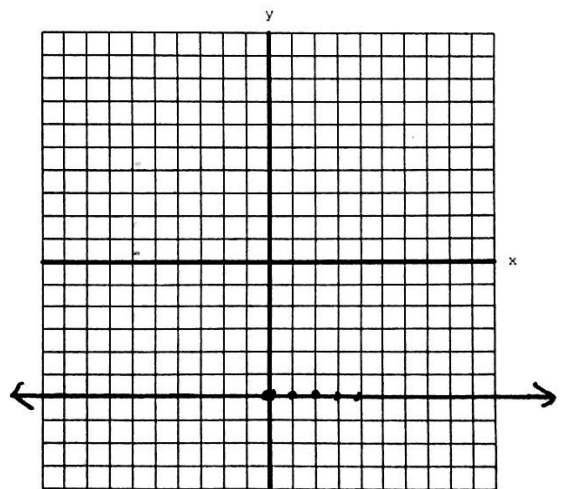
$$y = -\frac{1}{2}x - 3$$



8.  $y = -6$

$$y = 0x - 6$$

already in slope-int  
form, but could  
write with 0x term.



For #9-12

Find the x & y intercepts, then graph each line.

9.  $9x + 6y = -36$

$$9x + 6(0) = -36$$

$$9x = -36$$

$$x = -4$$

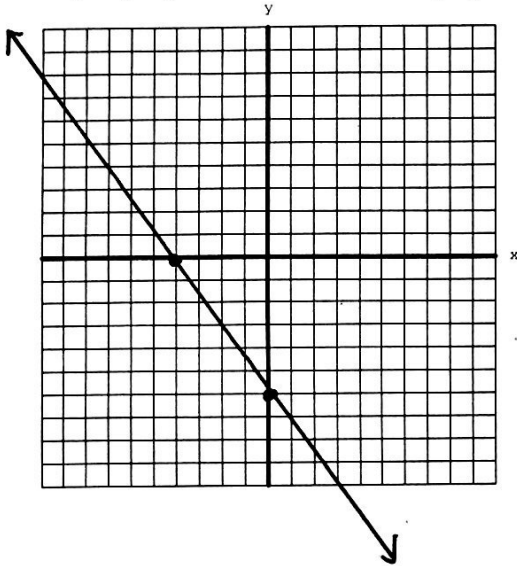
$$(-4, 0)$$

$$9(0) + 6y = -36$$

$$6y = -36$$

$$y = -6$$

$$(0, -6)$$



10.  $5x = 20$

$$5(x) = 20$$

$$x = 4$$

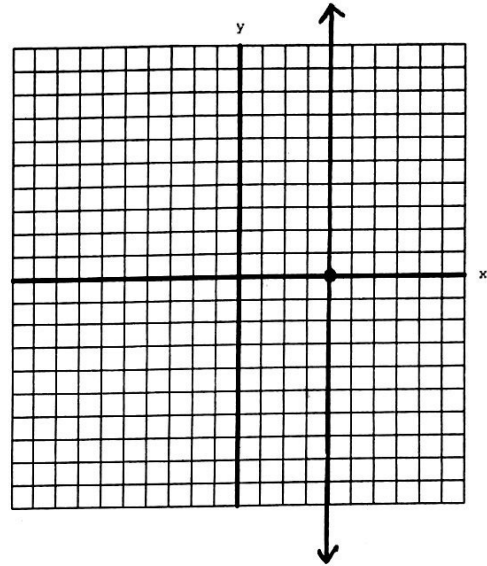
if try

$$5(0) = 20$$

$$0 = 20$$

not possible

no y-int



11.  $x - y = 5$

$$x - 0 = 5$$

$$x = 5$$

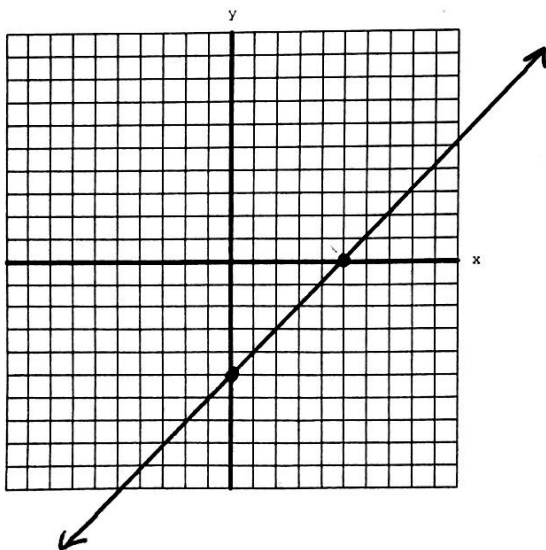
$$(5, 0)$$

$$0 - y = 5$$

$$-y = 5$$

$$y = -5$$

$$(0, -5)$$



12.  $4x + 5y = -20$

$$4x + 5(0) = -20$$

$$4x = -20$$

$$x = -5$$

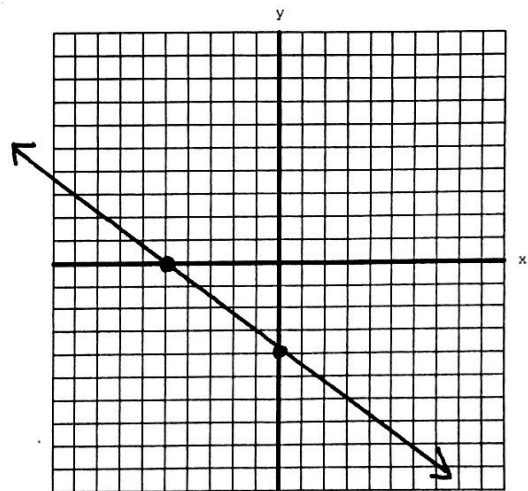
$$(-5, 0)$$

$$4(0) + 5y = -20$$

$$5y = -20$$

$$y = -4$$

$$(0, -4)$$



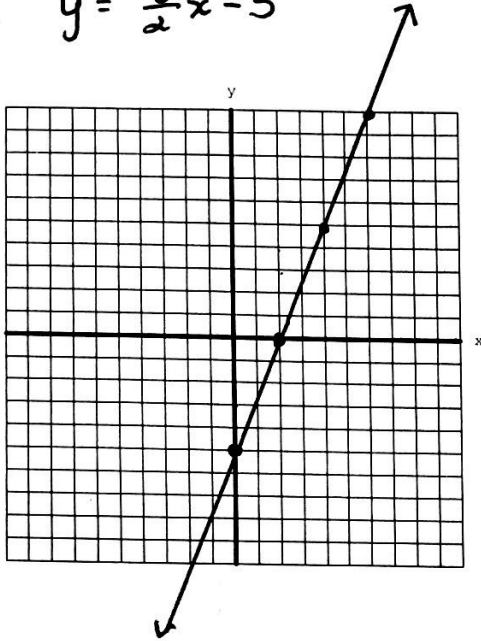
For #13-16

Choose any method you'd like to graph the following equations. Show work.

13.  $-5x + 2y = -10$

$$\frac{2y}{2} = \frac{5x - 10}{2} \frac{2}{2}$$

$$y = \frac{5}{2}x - 5$$



14.  $2x - 9y = 18$

$$2x - 9(0) = 18$$

$$2x = 18$$

$$x = 9$$

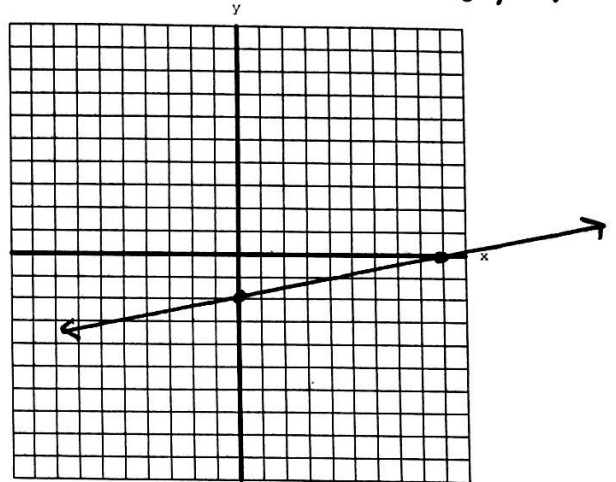
$$(9, 0)$$

$$2(0) - 9y = 18$$

$$-9y = 18$$

$$y = -2$$

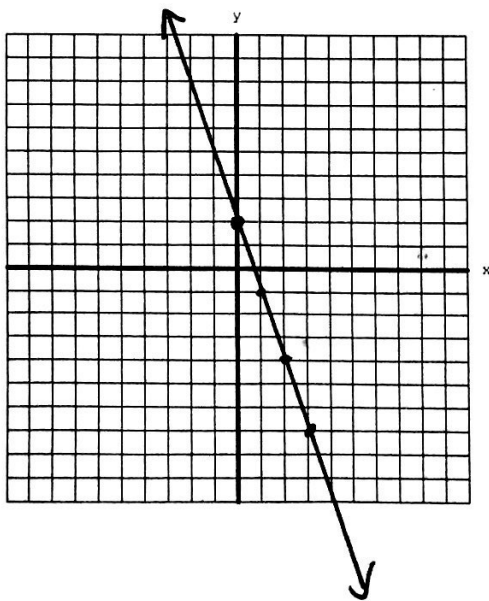
$$(0, -2)$$



15.  $3y + 9x = 6$

$$\frac{3y}{3} = \frac{-9x + 6}{3} \frac{3}{3}$$

$$y = -3x + 2$$



16.  $-\frac{1}{3}y - x = 2$

$$(-3) \left(-\frac{1}{3}y\right) = \frac{(-3)}{1}x + 2(-3)$$

$$y = -3x - 6$$

