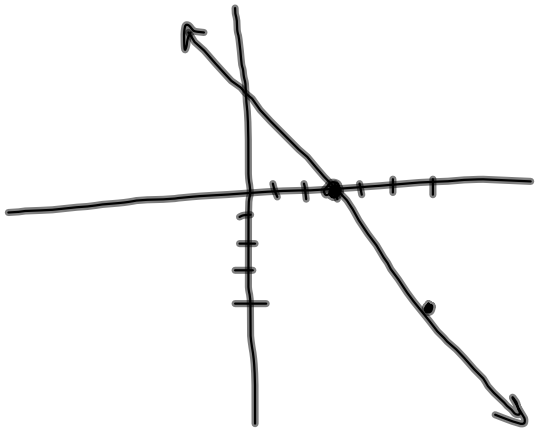
H/W review:

#16, p. 219



x	y
3	0
6	-4

$$3y + 4x = 12$$

$$\frac{3y}{3} = \frac{-4x}{3} + \frac{12}{3}$$

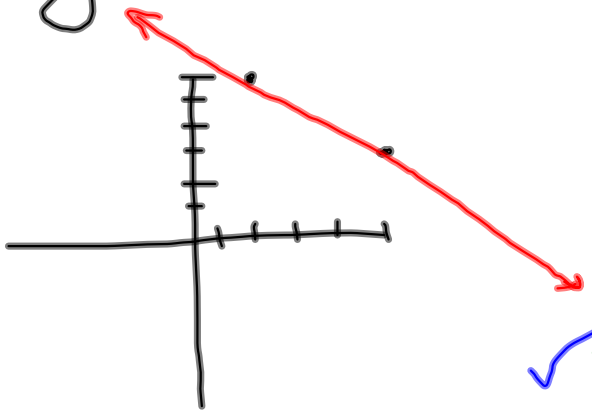
$$y = \frac{-4}{3}x + 4$$

$$y = \frac{-4}{3}(3) + 4 = 0$$

$$y = \frac{-4}{3}(6) + 4 = -4$$

Graph:

$y = 8 - x$



✓ 1. Solve the equation for y

✓ 2. Make a table of x and y values

x	y
2	6
5	3

(2, 6)
(5, 3)

✓ 3. Pick 2 random x values and solve the equation

$y = 2x + 3$

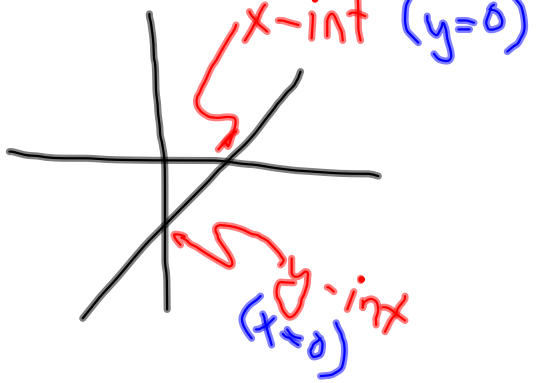
✓ 4. Graph the coordinates on a coordinate plane

✓ 5. Connect the points with a line

$y = -4.5x + 1$

intercepts

- places where a graph crosses the x- or y-axis
- X-intercept: where a graph crosses the x-axis $(y=0)$
- y-intercept: where a graph crosses the y-axis $(x=0)$



$2x+3y=18$

To find the x-intercept, solve the equation for $y=0$

$2x+3(0)=18$

$2x=18$

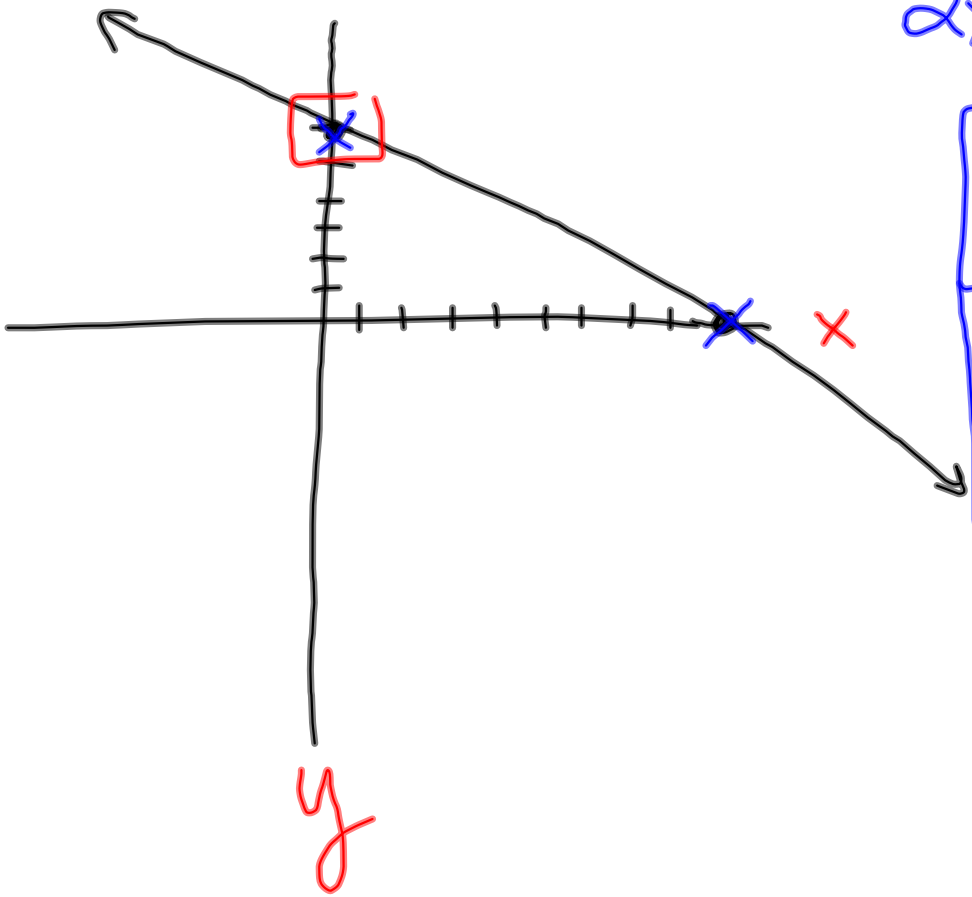
$x=9$

To find the y-intercept, solve the equation for $x=0$

$2(0)+3y=18$

$3y=18$

$y=6$



$2x+3y=18$

$x=9 \quad (y=0)$

x -int.

$y=6 \quad (x=0)$

y = int.

x	y
0	6
9	0

H/W: p. 229:

2, 3, 6-24 (every 3rd)

32, 34, 45, 46