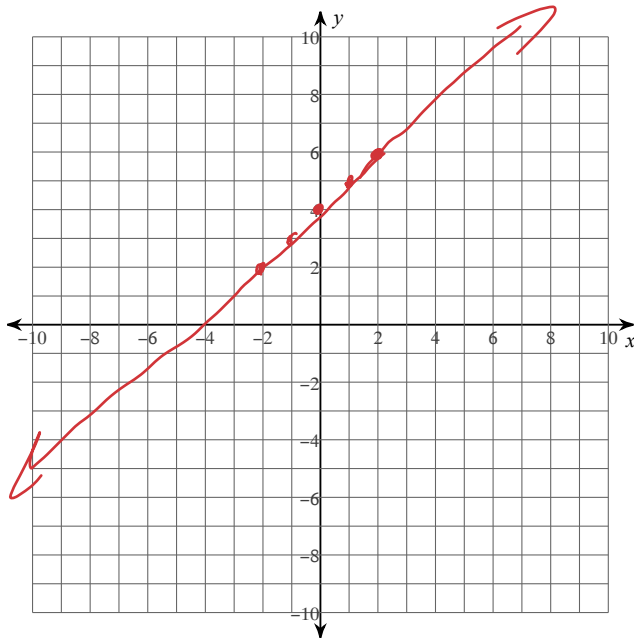


6.2 Graphing Linear Equations Part 1

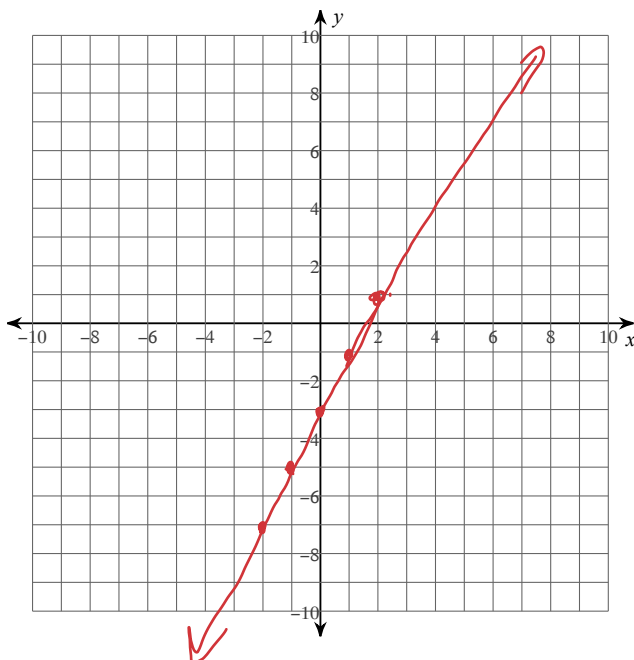
Create a table of values as in the notes. Plot the points, that fit in the graph, then draw the line.

1) $y = x + 4$



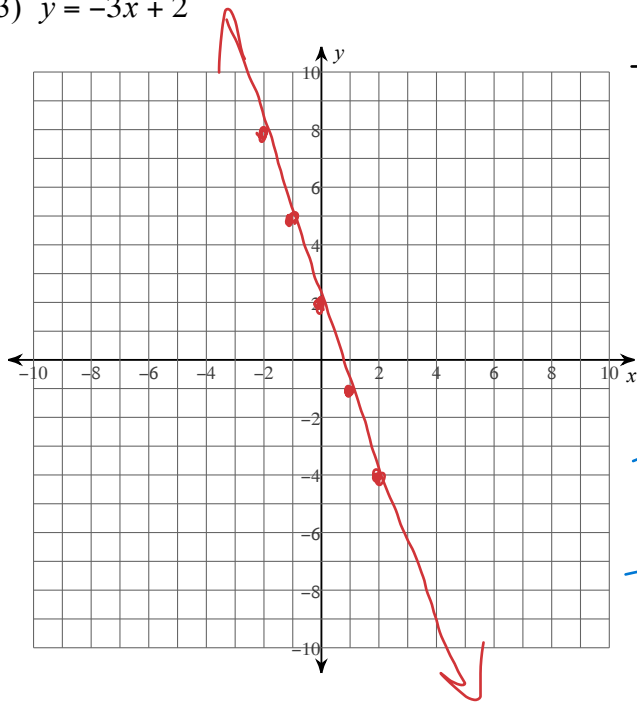
x	$y = x + 4$	(x, y)
2	$(2) + 4 = 6$	$(2, 6)$
1	$(1) + 4 = 5$	$(1, 5)$
0	$(0) + 4 = 4$	$(0, 4)$
-1	$(-1) + 4 = 3$	$(-1, 3)$
-2	$(-2) + 4 = 2$	$(-2, 2)$

2) $y = 2x - 3$



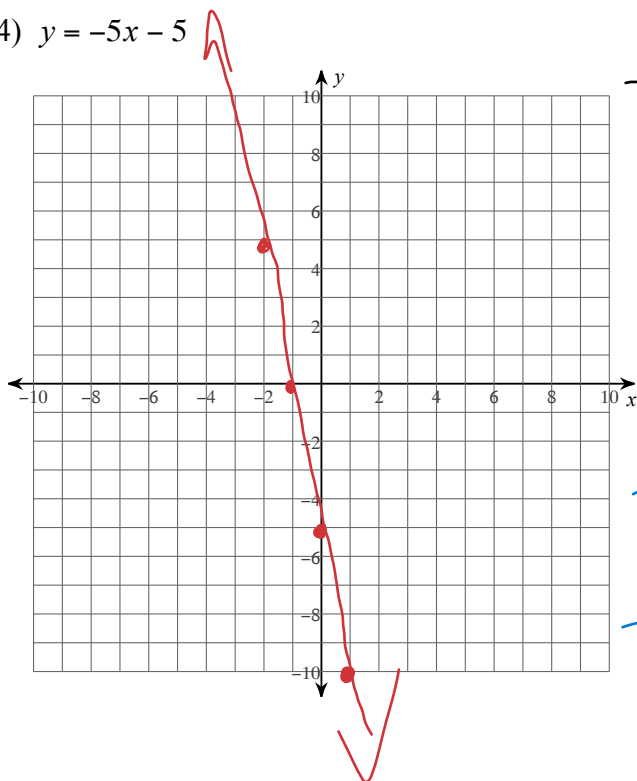
x	$y = 2x - 3$	(x, y)
2	$2(2) - 3 = 1$	$(2, 1)$
1	$2(1) - 3 = -1$	$(1, -1)$
0	$2(0) - 3 = -3$	$(0, -3)$
-1	$2(-1) - 3 = -5$	$(-1, -5)$
-2	$2(-2) - 3 = -7$	$(-2, -7)$

3) $y = -3x + 2$



x	$y = -3x + 2$	(x, y)
2	$-3(2) + 2 = -4$	$(2, -4)$
1	$-3(1) + 2 = -1$	$(1, -1)$
0	$-3(0) + 2 = 2$	$(0, 2)$
-1	$-3(-1) + 2 = 5$	$(-1, 5)$
-2	$-3(-2) + 2 = 8$	$(-2, 8)$

4) $y = -5x - 5$



x	$y = -5x - 5$	(x, y)
2	$-5(2) - 5 = -15$	$(2, -15)$
1	$-5(1) - 5 = -10$	$(1, -10)$
0	$-5(0) - 5 = -5$	$(0, -5)$
-1	$-5(-1) - 5 = 0$	$(-1, 0)$
-2	$-5(-2) - 5 = 5$	$(-2, 5)$

Rearrange the equations to $y =$

$+y = \text{leave alone}$
 $-y = \text{move}$

5) $10x + y = 8$

$$y = -10x + 8$$

6) $10x - y = 8$

$$10x - 8 = y$$

7) $6x + 5y = 40$

$$\frac{5y}{5} = \frac{-6x + 40}{5}$$

$$y = \frac{-6}{5}x + 8$$

8) $x - 5y = -25$

$$\frac{1x}{5} + \frac{25}{5} = \frac{5y}{5}$$

$$\frac{1}{5}x + 5 = y$$

9) $3x + 5y = 5$

$$\frac{5y}{5} = \frac{-3x + 5}{5}$$

$$y = \frac{-3}{5}x + 1$$

10) $11x + 3y = 32$

$$\frac{3y}{3} = \frac{-11x + 32}{3}$$

$$y = \frac{-11}{3}x + \frac{32}{3}$$

11) $0 = y - 5 - 2x$

$$2x + 5 = y$$

12) $\frac{8y}{8} = \frac{-14x + 32}{8}$ *reduce by 2*

$$y = \frac{-7}{4}x + 4$$

13) $x - 6 = -2y$

$$\frac{2y}{2} = \frac{-1x + 6}{2}$$

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

14) $0 = -16 - 18x - 4y$

$$\frac{4y}{4} = \frac{-18x - 16}{4}$$

$$y = \frac{-9}{2}x - 4$$