

2.1

1) $B(4, -3), C(1, 2), D(-1, 4), E(-5, 0), F(2, -3), G(1, 3), H(-1, -4), I(-2, -1), J(0, 2), K(-4, 3)$

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

let $x = -4$

$$y = -\frac{1}{4}(-4) - 3$$

$$= 1 - 3$$

$$= -2$$

let $x = 0$

$$y = -\frac{1}{4}(0) - 3$$

$$= 0 - 3$$

$$= -3$$

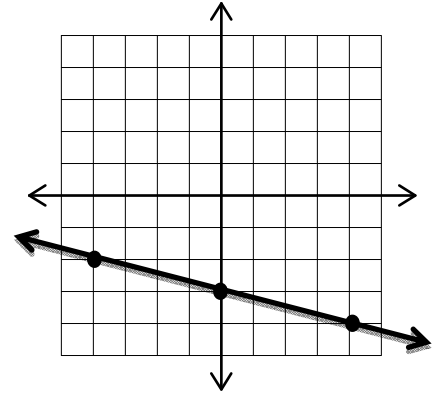
let $x = 4$

$$y = -\frac{1}{4}(4) - 3$$

$$= -1 - 3$$

$$= -4$$

x	y
-4	-2
0	-3
4	-4



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

let $x = -4$

$$y = -\frac{5}{4}(-4) - 4$$

$$= 5 - 4$$

$$= 1$$

let $x = 0$

$$y = -\frac{5}{4}(0) - 4$$

$$= 0 - 4$$

$$= -4$$

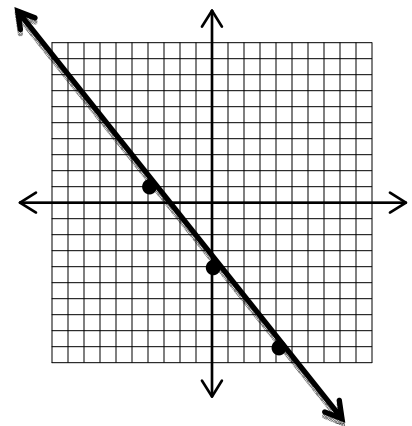
let $x = 4$

$$y = -\frac{5}{4}(4) - 4$$

$$= -5 - 4$$

$$= -9$$

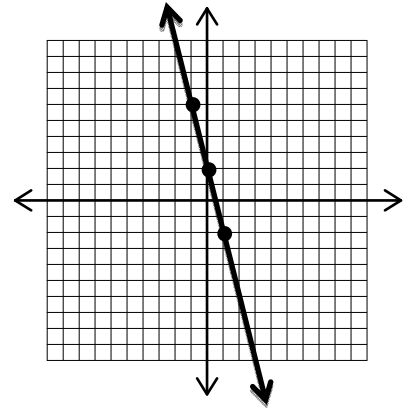
x	y
-4	1
0	-4
4	-9



$$7) y = -4x + 2$$

$$\begin{aligned} \text{let } x &= -1 \\ y &= -4(-1) + 2 \\ &= 4 + 2 \\ &= 6 \\ \text{let } x &= 0 \\ y &= -4(0) + 2 \\ &= 0 + 2 \\ &= 2 \\ \text{let } x &= 1 \\ y &= -4(1) + 2 \\ &= -4 + 2 \\ &= -2 \end{aligned}$$

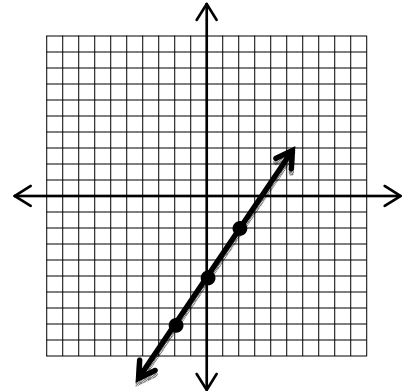
x	y
-1	6
0	2
1	-2



$$9) y = \frac{3}{2}x - 5$$

$$\begin{aligned} \text{let } x &= -2 \\ y &= \frac{3}{2}(-2) - 5 \\ &= -3 - 5 \\ &= -8 \\ \text{let } x &= 0 \\ y &= \frac{3}{2}(0) - 5 \\ &= 0 - 5 \\ &= -5 \\ \text{let } x &= 2 \\ y &= \frac{3}{2}(2) - 5 \\ &= 3 - 5 \\ &= -2 \end{aligned}$$

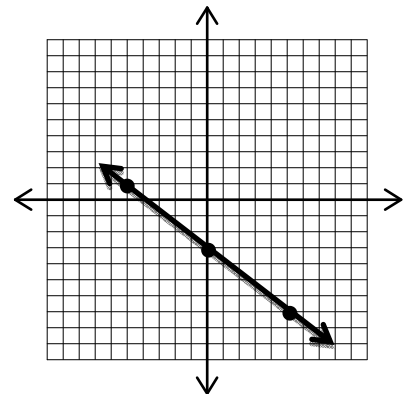
x	y
-2	-8
0	-5
2	-2



$$11) y = -\frac{4}{5}x - 3$$

$$\begin{aligned} \text{let } x &= -5 \\ y &= -\frac{4}{5}(-5) - 3 \\ &= 4 - 3 \\ &= 1 \\ \text{let } x &= 0 \\ y &= -\frac{4}{5}(0) - 3 \\ &= 0 - 3 \\ &= -3 \\ \text{let } x &= 5 \\ y &= -\frac{4}{5}(5) - 3 \\ &= -4 - 3 \\ &= -7 \end{aligned}$$

x	y
-5	1
0	-3
5	-7



$$13) \quad x + 5y = -15$$

$$\begin{array}{r} -x \qquad -x \\ \hline 5y = \frac{-x}{5} - \frac{15}{5} \\ y = -\frac{1}{5}x - 3 \end{array}$$

$$\text{let } x = -5$$

$$\begin{aligned} y &= -\frac{1}{5}(-5) - 3 \\ &= 1 - 3 \\ &= -2 \end{aligned}$$

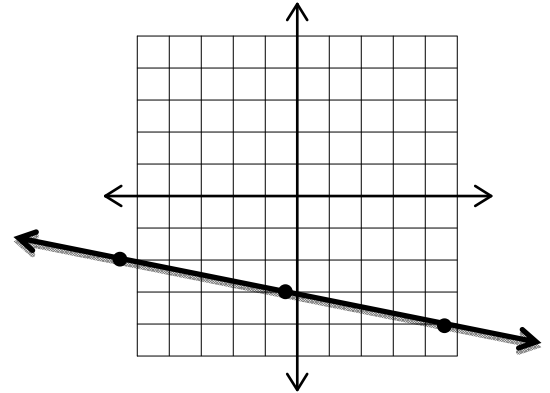
$$\text{let } x = 0$$

$$\begin{aligned} y &= -\frac{1}{5}(0) - 3 \\ &= 0 - 3 \\ &= -3 \end{aligned}$$

$$\text{let } x = 5$$

$$\begin{aligned} y &= -\frac{1}{5}(5) - 3 \\ &= -1 - 3 \\ &= -4 \end{aligned}$$

x	y
-5	-2
0	-3
5	-4



$$15) \quad 4x + y = 5$$

$$\begin{array}{r} -4x \qquad -4x \\ \hline y = -4x + 5 \end{array}$$

$$\text{let } x = -1$$

$$\begin{aligned} y &= -4(-1) + 5 \\ &= 4 + 5 \\ &= 9 \end{aligned}$$

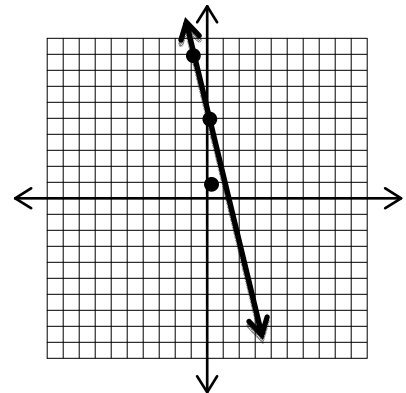
$$\text{let } x = 0$$

$$\begin{aligned} y &= -4(0) + 5 \\ &= 0 + 5 \\ &= 5 \end{aligned}$$

$$\text{let } x = 1$$

$$\begin{aligned} y &= -4(1) + 5 \\ &= -4 + 5 \\ &= 1 \end{aligned}$$

x	y
-1	9
0	5
1	1



$$17) \quad 2x - y = 2$$

$$\begin{array}{r} -2x \quad -2x \\ \hline -y = \frac{-2x}{-1} + \frac{2}{-1} \end{array}$$

$$y = 2x - 2$$

$$\text{let } x = -1$$

$$\begin{aligned} y &= 2(-1) - 2 \\ &= -2 - 2 \\ &= -4 \end{aligned}$$

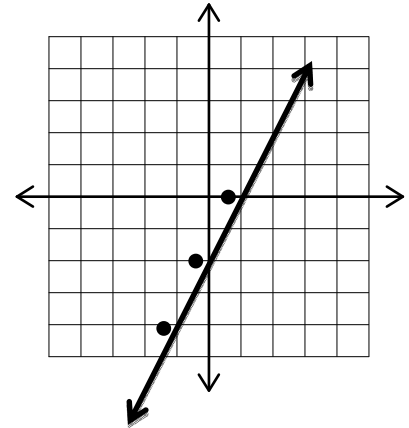
$$\text{let } x = 0$$

$$\begin{aligned} y &= 2(0) - 2 \\ &= 0 - 2 \\ &= -2 \end{aligned}$$

$$\text{let } x = 1$$

$$\begin{aligned} y &= 2(1) - 2 \\ &= 2 - 2 \\ &= 0 \end{aligned}$$

x	y
-1	-4
0	-2
1	0



$$19) \quad x + y = -1$$

$$\begin{array}{r} -x \quad -x \\ \hline y = -x - 1 \end{array}$$

$$\text{let } x = -1$$

$$\begin{aligned} y &= -(-1) - 1 \\ &= 1 - 1 \\ &= 0 \end{aligned}$$

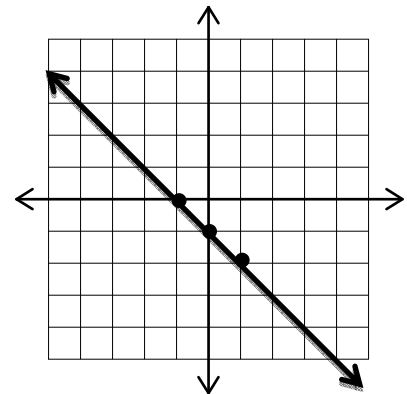
$$\text{let } x = 0$$

$$\begin{aligned} y &= -(0) - 1 \\ &= 0 - 1 \\ &= -1 \end{aligned}$$

$$\text{let } x = 1$$

$$\begin{aligned} y &= -(1) - 1 \\ &= -1 - 1 \\ &= -2 \end{aligned}$$

x	y
-1	0
0	-1
1	-2



$$21) \quad x - y = -3$$

$$\begin{array}{r} -x \quad -x \\ \hline -y = \frac{-x}{-1} - \frac{3}{-1} \\ y = x + 3 \end{array}$$

$$\text{let } x = -1$$

$$y = (-1) + 3$$

$$= -1 + 3$$

$$= 2$$

$$\text{let } x = 0$$

$$y = (0) + 3$$

$$= 3$$

$$\text{let } x = 1$$

$$y = (1) + 3$$

$$= 4$$

x	y
-1	2
0	3
1	4

