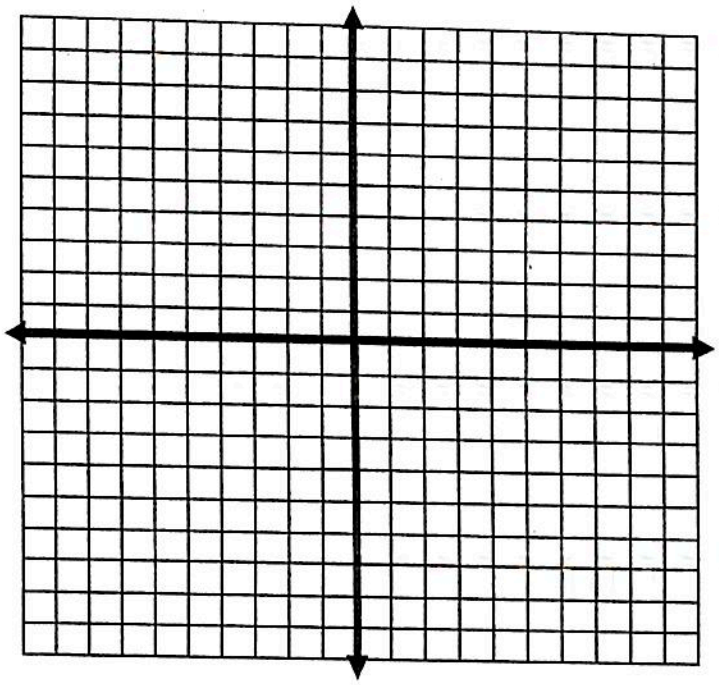
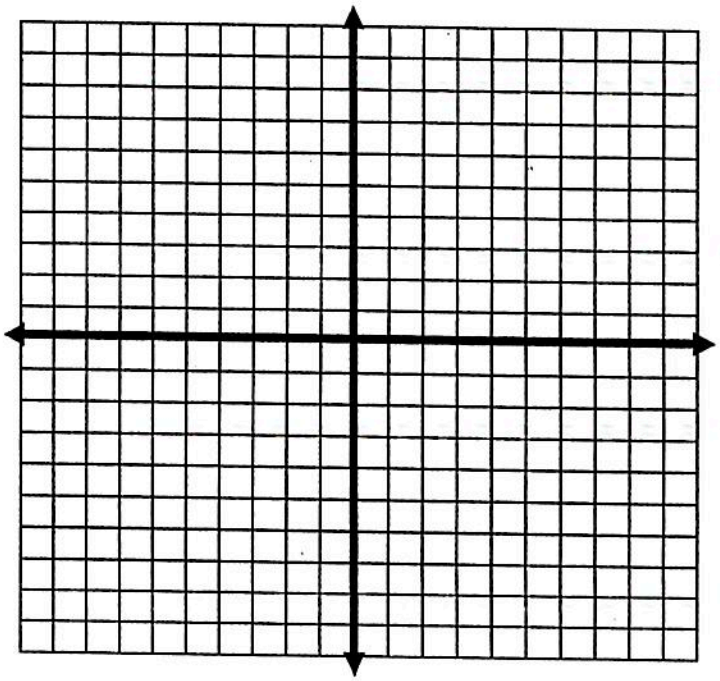
Extra Graphing Practice

1. What is the slope of a line passing through the points $(29, -4)$ and $(6, 8)$

2. Graph the line of the equation ~~$3x - y = 15$~~ $3x - y = 5$ using the ***slope-intercept method***.

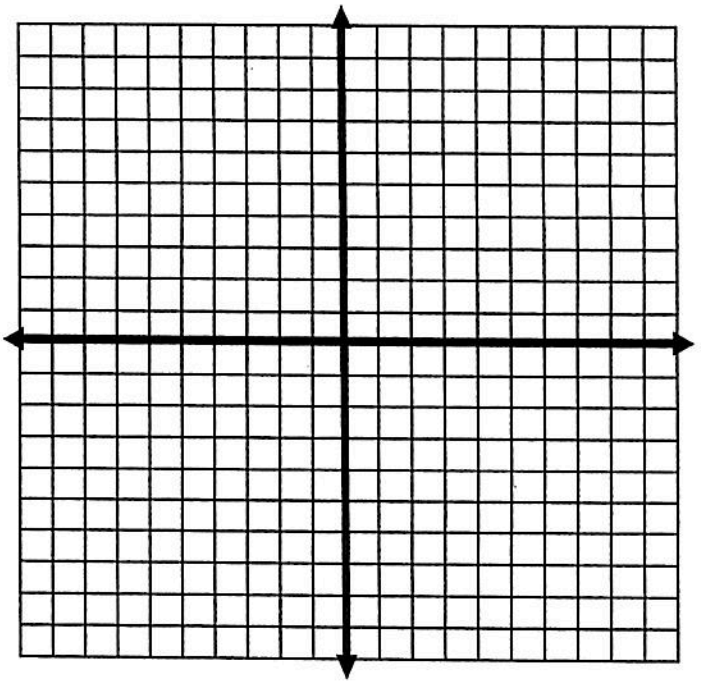


3. Graph the linear function $2x + y = 3$ defined by the domain $-2 \leq x \leq 4$ where x is a real number.



b) State the range of the function.

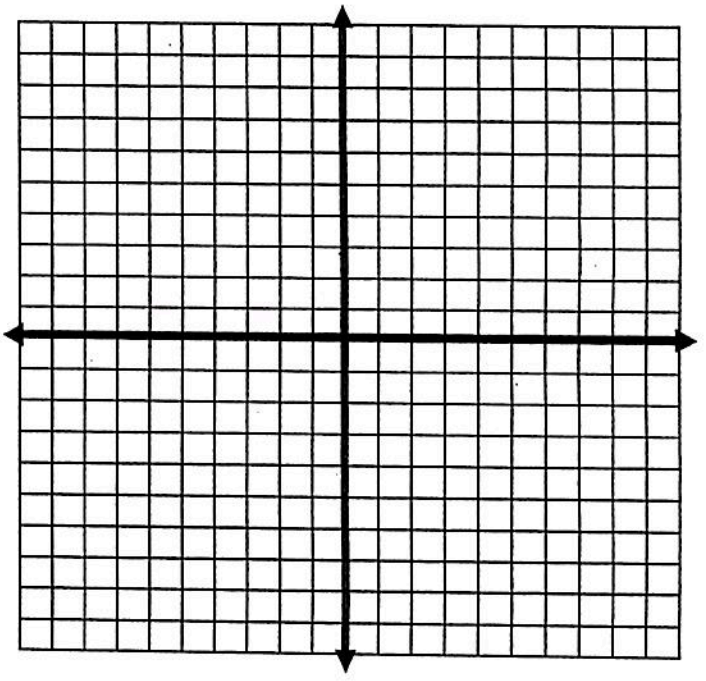
4. Graph the lines $x = -6$ $y = 7$



Name the point where the two lines intersect.

5. Graph the linear function using the ***intercepts method***.

$9x + 2y = 18$



Extra Graphing Practice

1. What is the slope of a line passing through the points $(29, -4)$ and $(6, 8)$

$x_1\ y_1 \qquad x_2\ y_2$

$$\text{slope } (m) = \frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1} \qquad \frac{8-(-4)}{6-(29)} = \frac{12}{-23}$$

2. Graph the line of the equation ~~$3x - y = 15$~~ $3x - y = 5$ using the ***slope-intercept method***.

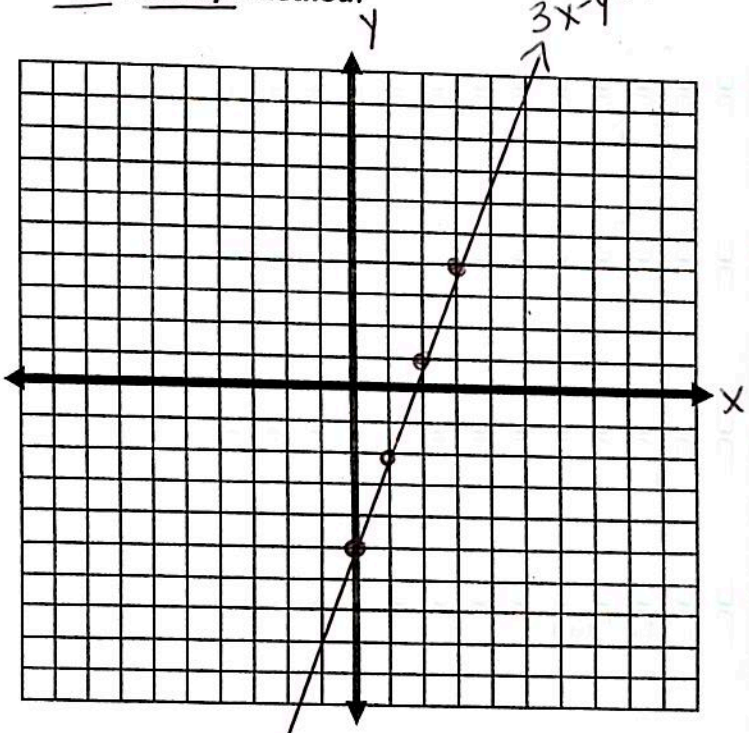
$$3x - y = 5$$

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

$$y = 3x - 5$$

$$\text{slope } (m) = \frac{3}{1}$$

$$y\text{-intercept } (b) = -5$$

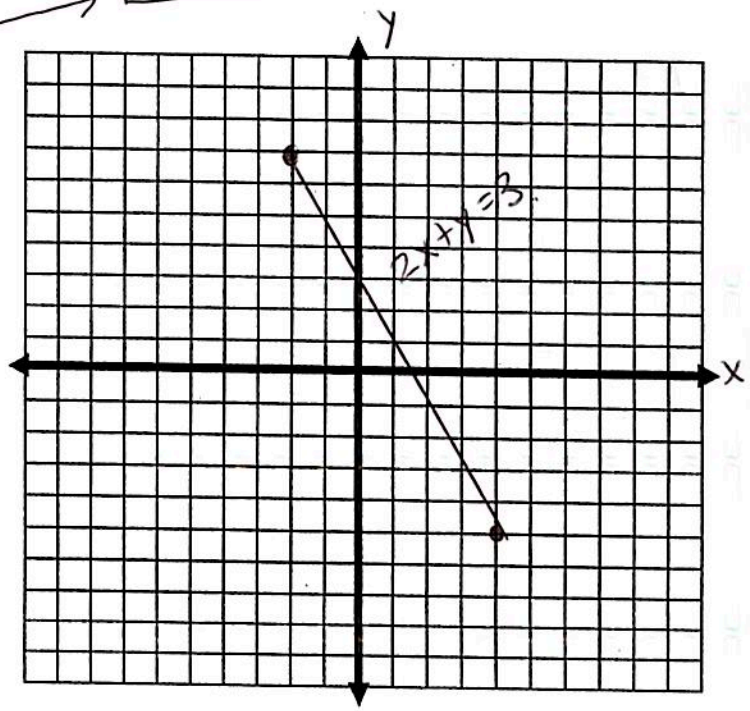


3. Graph the linear function $2x + y = 3$ defined by the domain $-2 \leq x \leq 4$ where x is a real number.

X	y
-2	7
-1	5
0	3
1	1
2	-1
3	-3
4	-5

only use these x values

no arrows



b) State the range of the function.

$$-5 \leq y \leq 7$$

inequality ~~set~~ notation

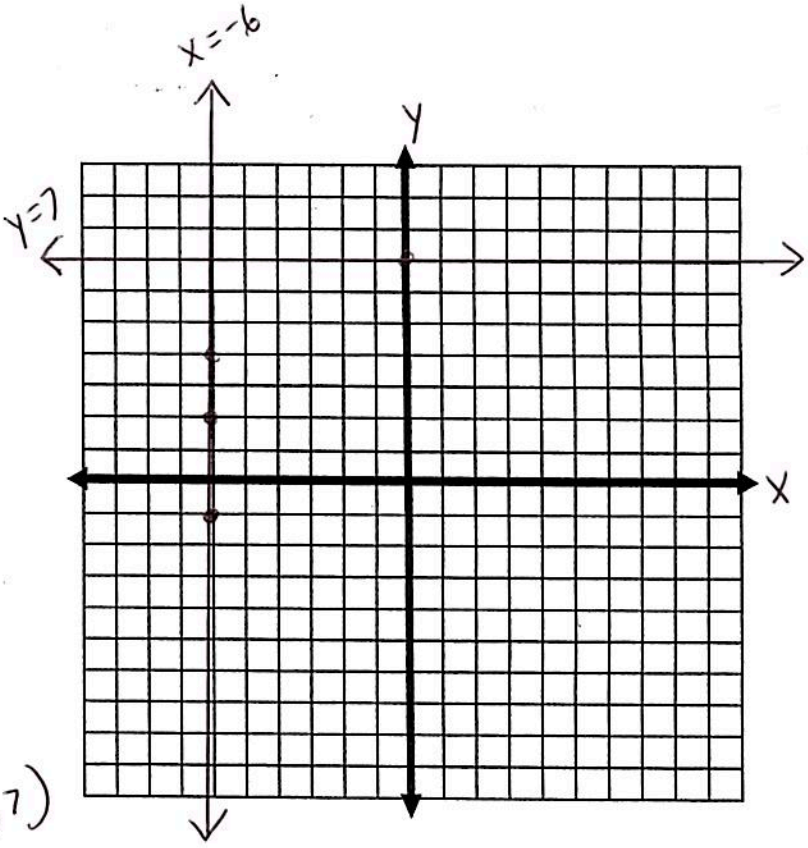
$[-5, 7]$

interval notation

4. Graph the lines $x = -6$ $y = 7$

x	y
-6	-1
-6	2
-6	4

x	y
-3	7
0	7
2	7



Name the point where the two lines intersect. $(-6, 7)$

5. Graph the linear function using the ***intercepts method***.

$$9x + 2y = 18$$

x-intercept: $(x, 0)$ yintercept $(0, y)$

$9x + 2(0) = 18$

$9x = 18$

$x = 2$

$(2, 0)$

$9(0) + 2y = 18$

$2y = 18$

$y = 9$

$(0, 9)$