

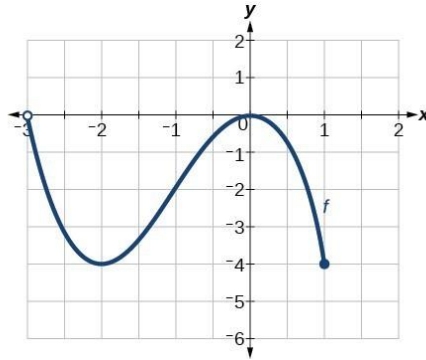
## Integrated Math I: Graphing Linear Functions

Determine whether the relation is a function. Identify domain and range.

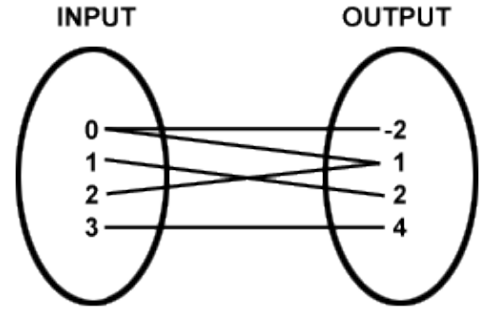
1.)

Input	Output
3	0
4	7
5	10
4	14
10	25

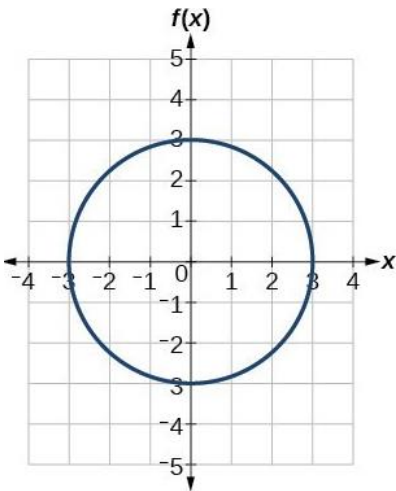
2.)



3.)



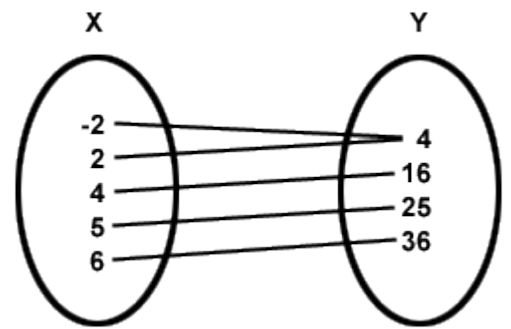
4.)



5.)

Input	Output
-1	5
0	3
1	4
2	7
3	4

6.)



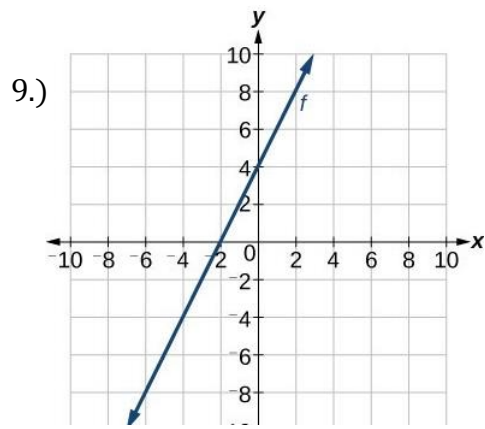
### Integrated Math I: Graphing Linear Functions

Find the slope of the following linear functions.

7.)

8.)  $(-5, 3)$  and  $(5, -7)$

x	2	4	6	8	10	12	14
y	1	6	11	16	21	26	31

10.)  $-2x + 7y = 14$

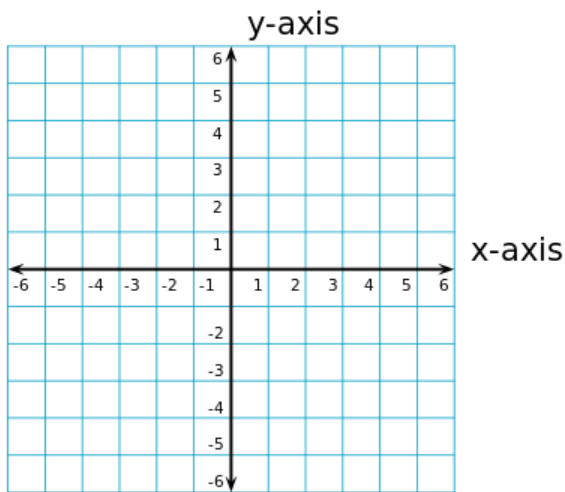


Evaluate the following functions using the x-y tables provided then graph the function by plotting the points.

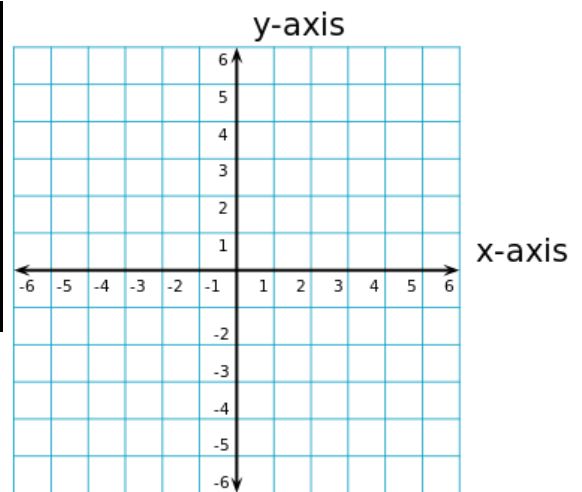
11.)  $y = 2x + 1$

12.)  $y = \frac{1}{2}x + 1$

x	y
-2	
-1	
0	
1	
2	



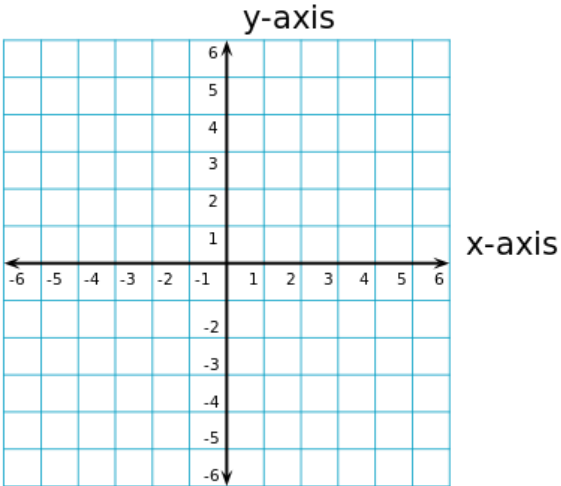
x	y
-2	
0	
2	
4	
6	



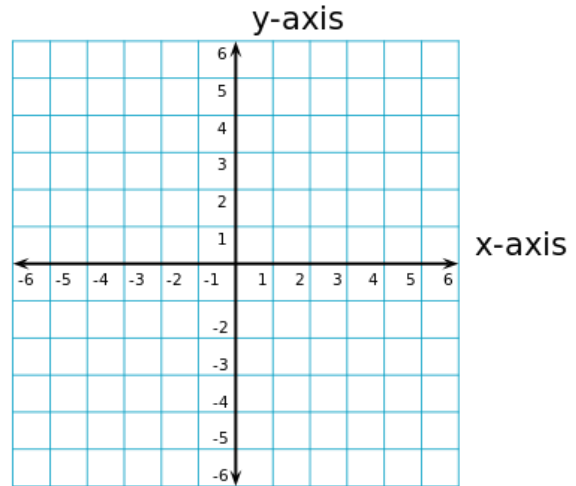
### Integrated Math I: Graphing Linear Functions

Graph the following function in Standard Form. If the functions are not in standard form then write in the correct form before graphing. Show all work.

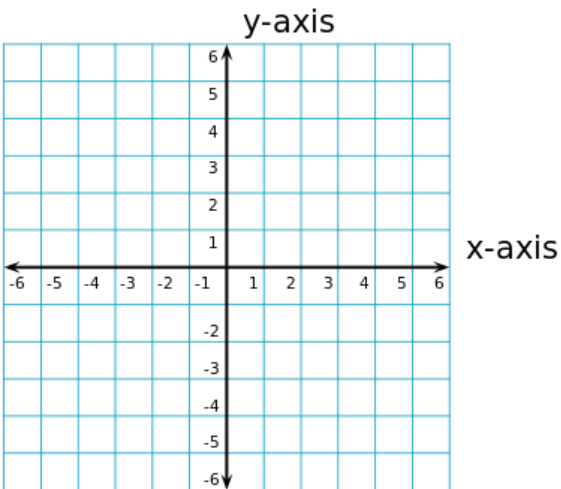
13.)  $3x - 4y = 12$



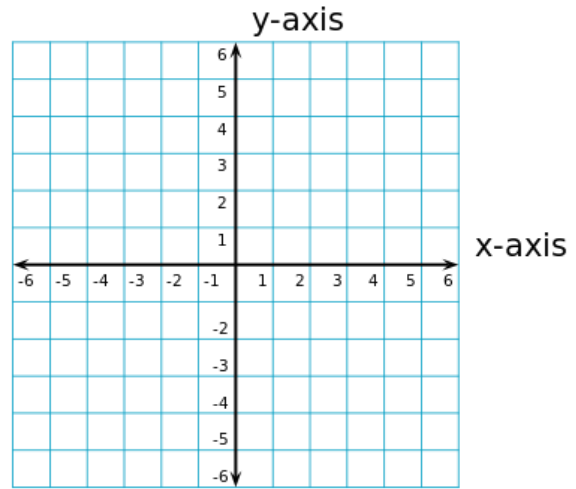
14.)  $3y + 2x = 6$



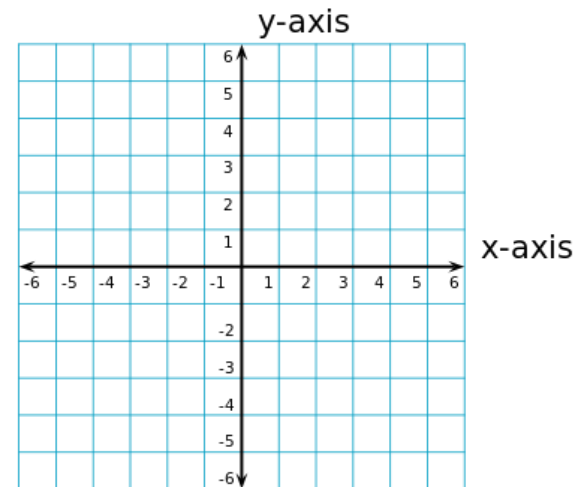
15.)  $5y = -3x + 15$



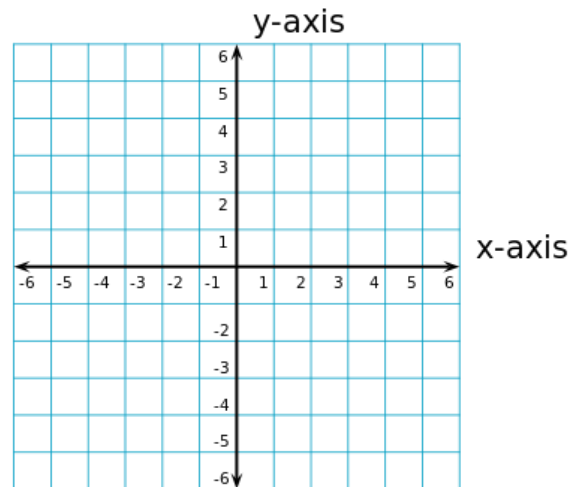
16.)  $-2x = y + 4$



17.)  $y = 5$



18.)  $x = -3$



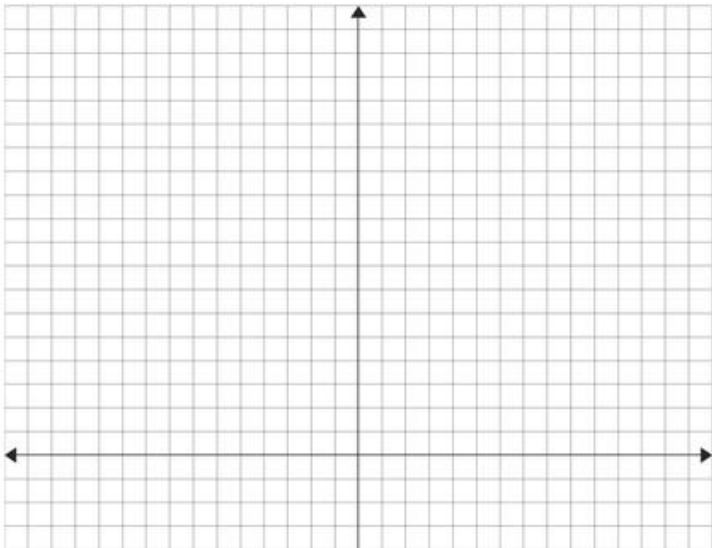
## Integrated Math I: Graphing Linear Functions

### 17.) Modeling a linear function.

Jeremiah Gutierrez plans to spend a summer in Bangkok, Thailand to study Thai culture. He has saved \$3,500 for his trip and anticipates spending \$400 each week on rent, food, and activities. How can we write a linear model to represent his situation? What would be the x-intercept, and what can he learn from it? What would the y-intercept mean in this scenario? What does the slope represent?

a.) Write the linear function in slope-intercept form.

b.) Graph the function. Scale the numbers to make the graph fit.



c.) What is the x - intercept and what does this mean for Jeremiah's trip?

d.) What is the y-intercept and what does this mean for Jeremiah's trip?

e.) What is the slope and what does this mean within Jeremiah's trip?

