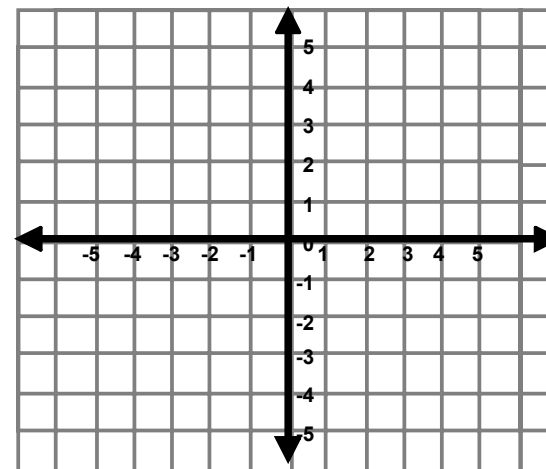


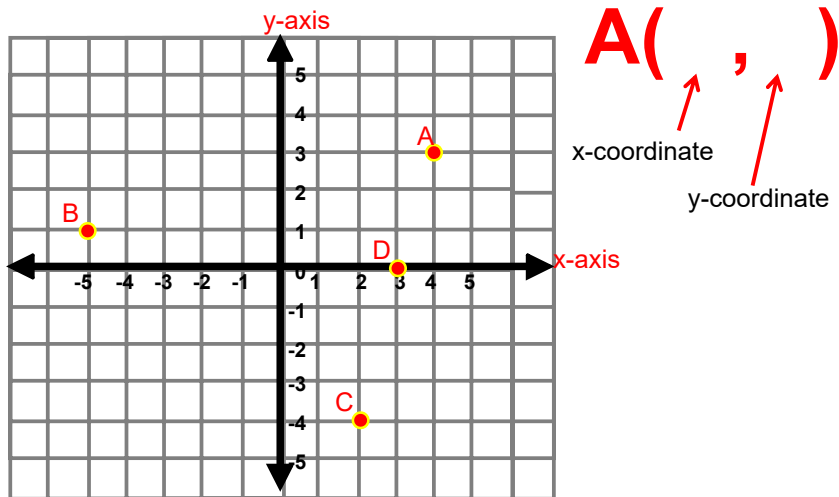
# 6.2

## Representation of Functions

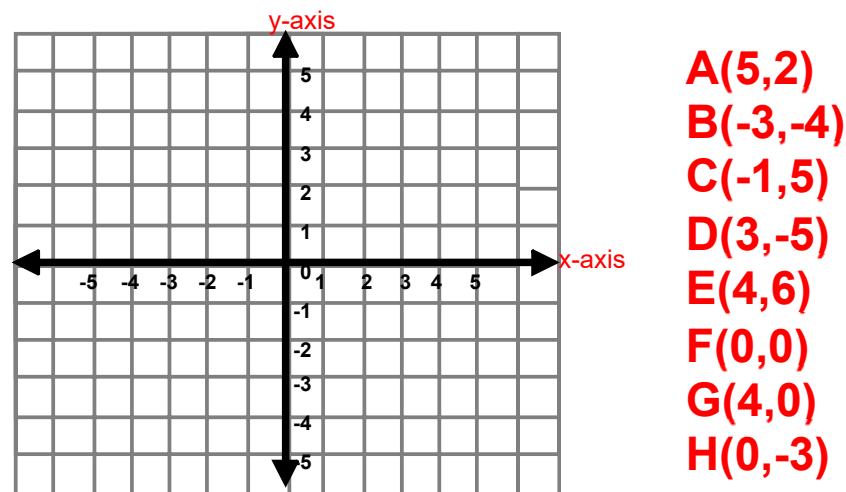
### COORDINATE PLANE



### COORDINATES



### PLOTTING POINTS



## Examples

a. Write a function rule for "The output is five less than the input."

b. Write a function rule for "The output is the square of the input."

## On Your Own

a. Write a function rule for "The output is eight more than the input."

b. Write a function rule for "The output is four times the input."

## Examples

What is the value of  $y = 2x + 5$  when  $x = 3$ ?

What is the value of  $y = -2x + 7$  when  $x = 2$ ?

## On Your Own

1. Write a function rule for "The output is one-fourth of the input."

Find the value of  $y$  when  $x = 5$ .

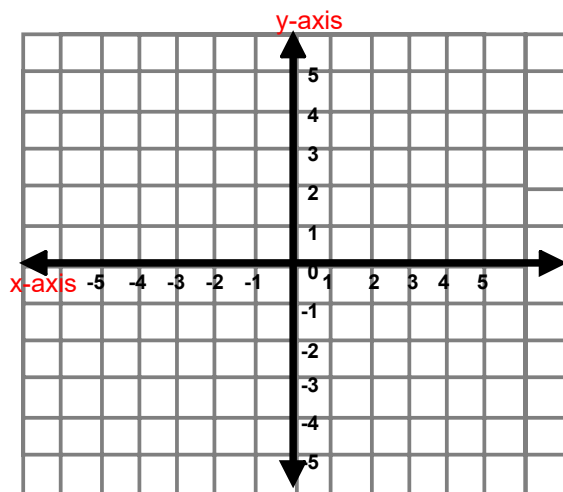
2.  $y = 4x - 1$

3.  $y = 10x$

4.  $y = 7 - 3x$

Graph the function  $y = -2x + 1$  using inputs of  $-1, 0, 1,$  and  $2.$

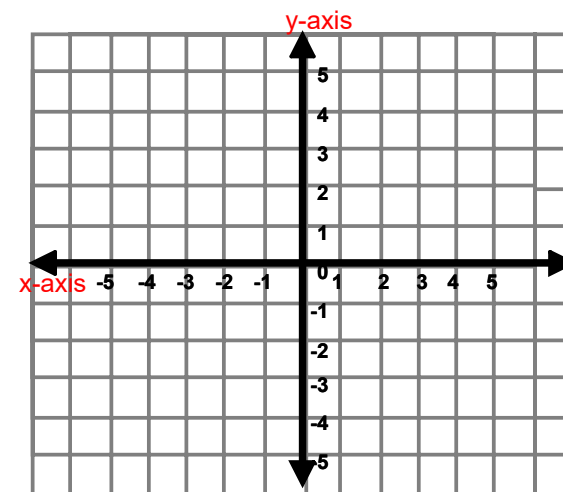
Make an input-output table.



## On Your Own

Graph the function

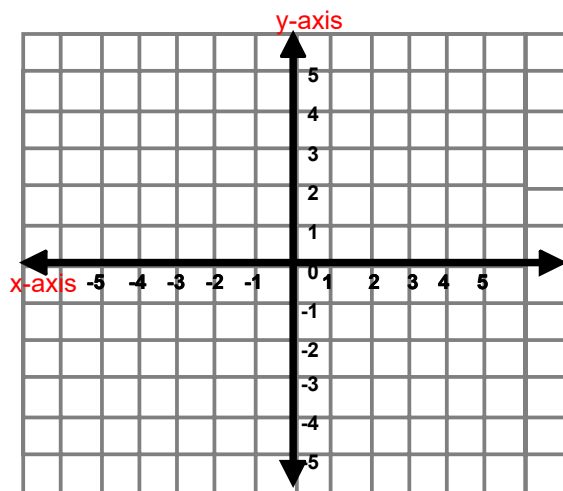
5.  $y = x + 1$



## On Your Own

Graph the function

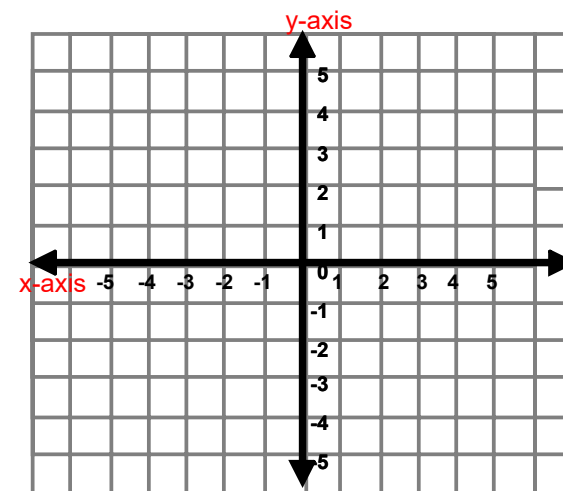
6.  $y = -3x$



## On Your Own

Graph the function

7.  $y = 3x + 2$



The number of pounds  $p$  of carbon dioxide produced by a car is 20 times the number of gallons  $g$  of gasoline used by the car. Write and graph a function that describes the relationship between  $g$  and  $p$ .

