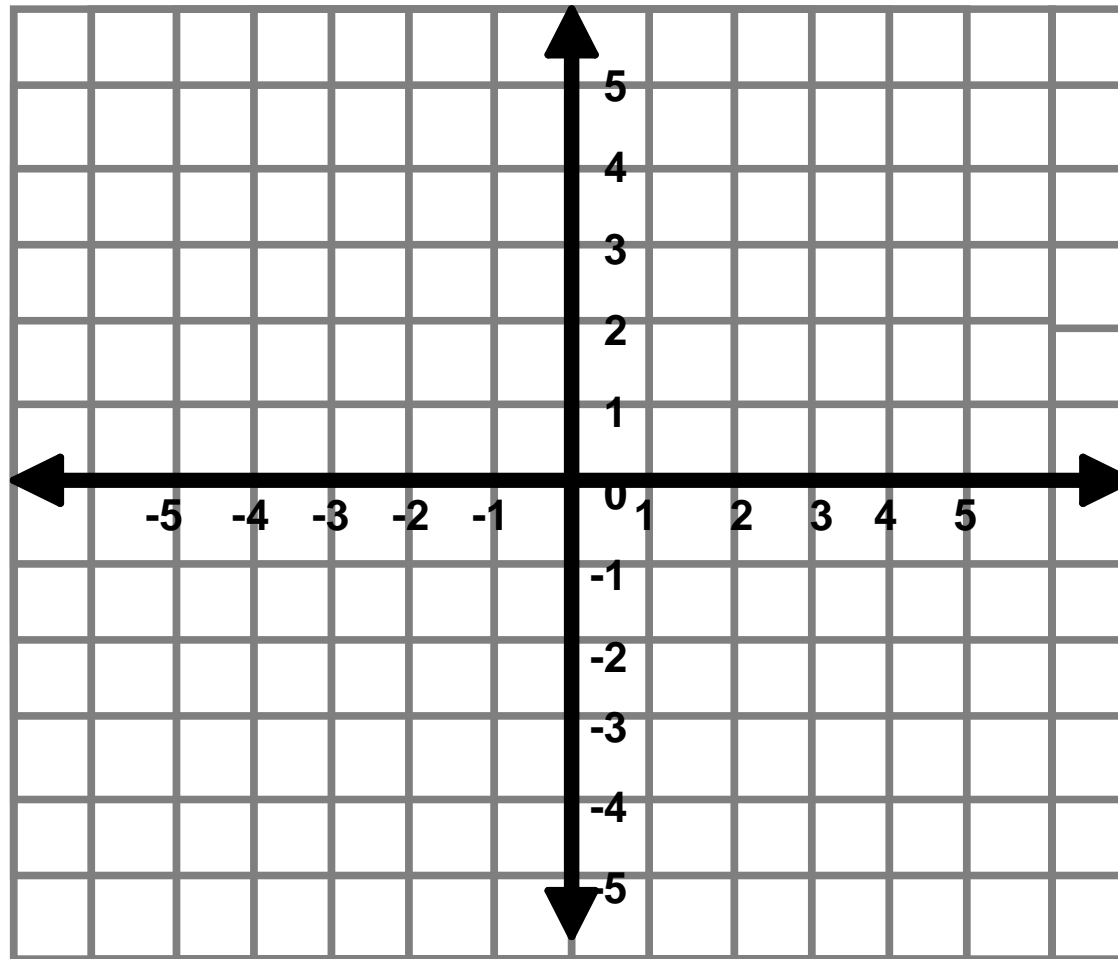


**6.2**

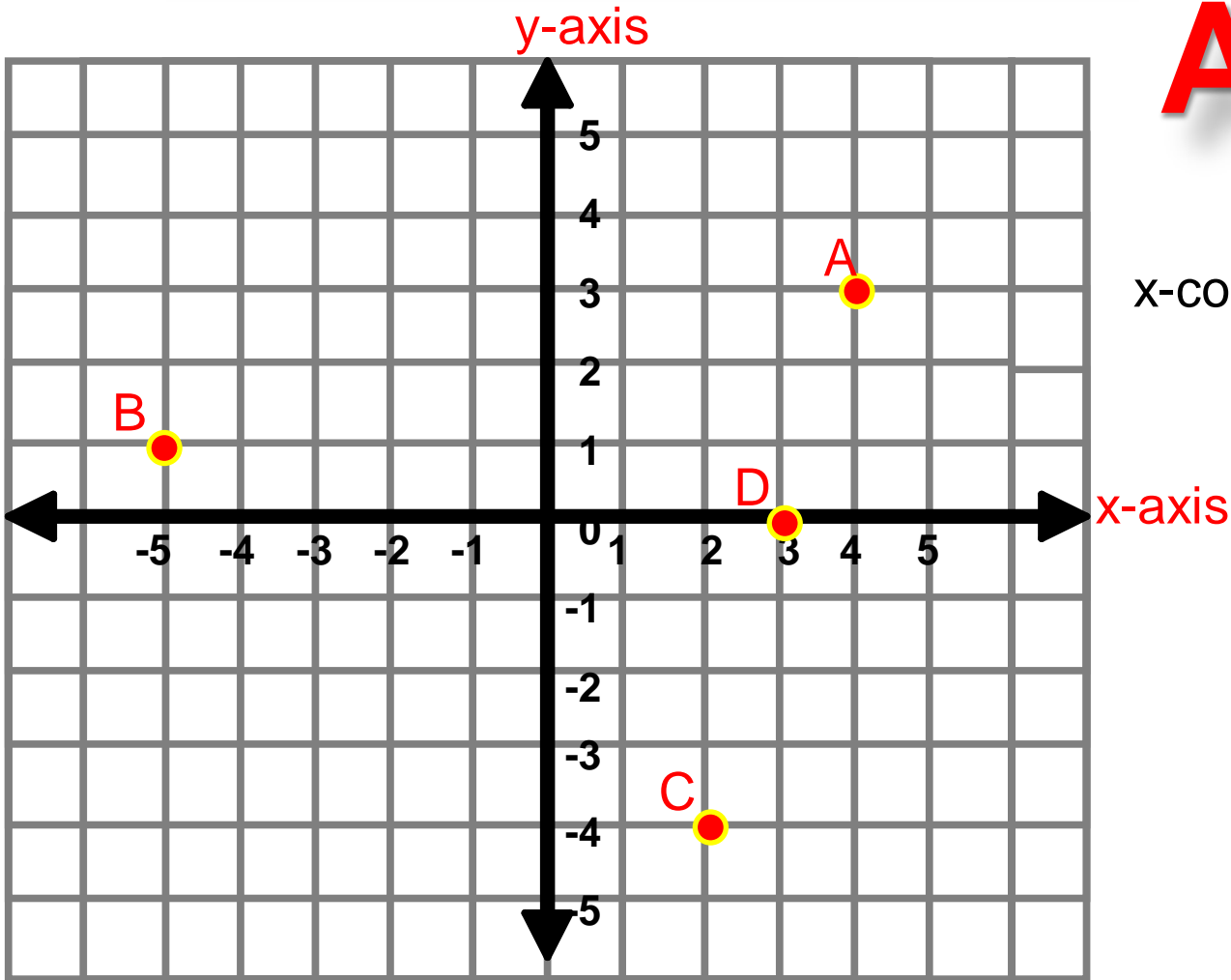
# **Representation of Functions**

# COORDINATE PLANE

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# COORDINATES

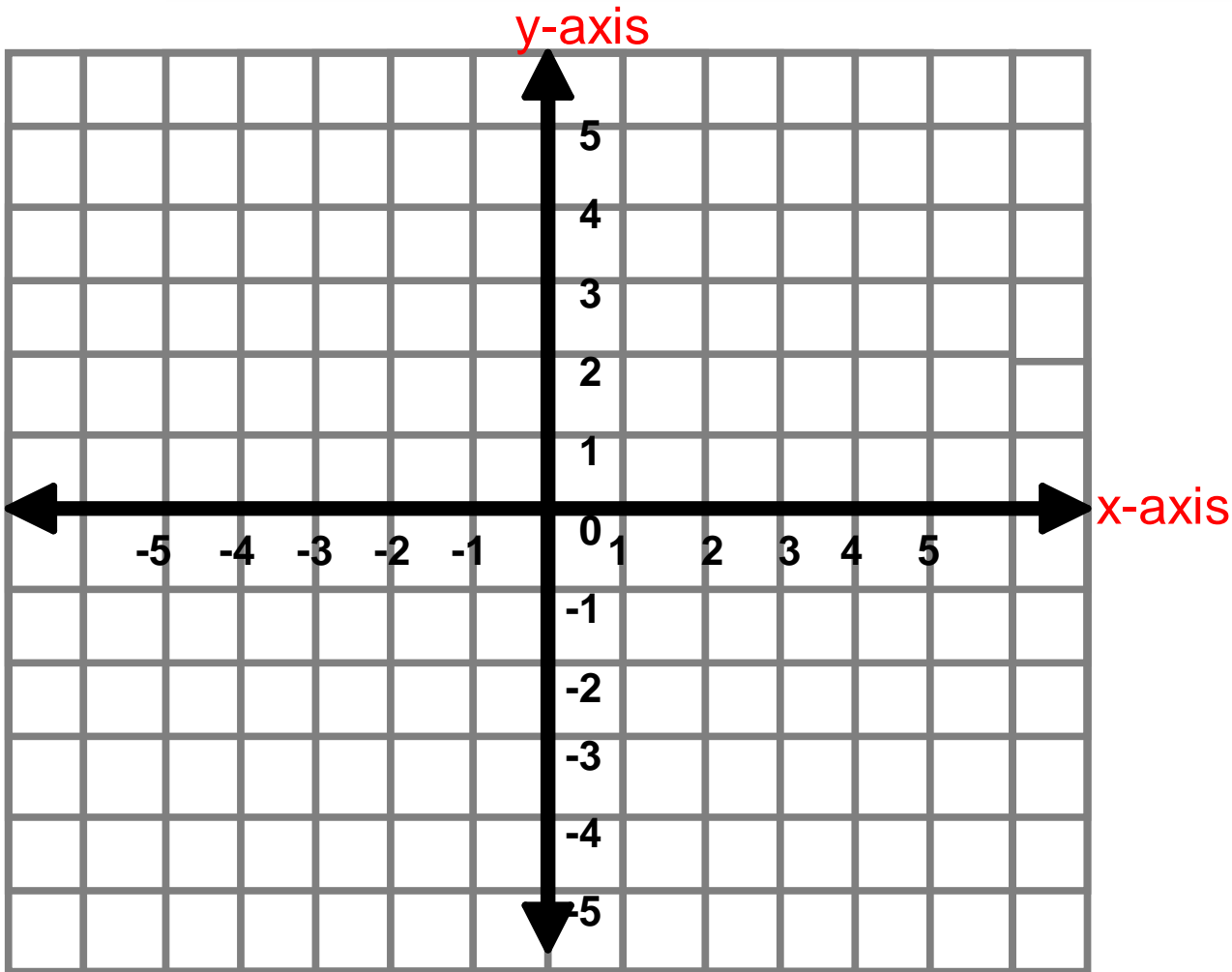


**A**( , )

x-coordinate

y-coordinate

# PLOTTING POINTS



- A(5,2)**
- B(-3,-4)**
- C(-1,5)**
- D(3,-5)**
- E(4,6)**
- F(0,0)**
- G(4,0)**
- H(0,-3)**





# 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.  $y = 4x - 1$

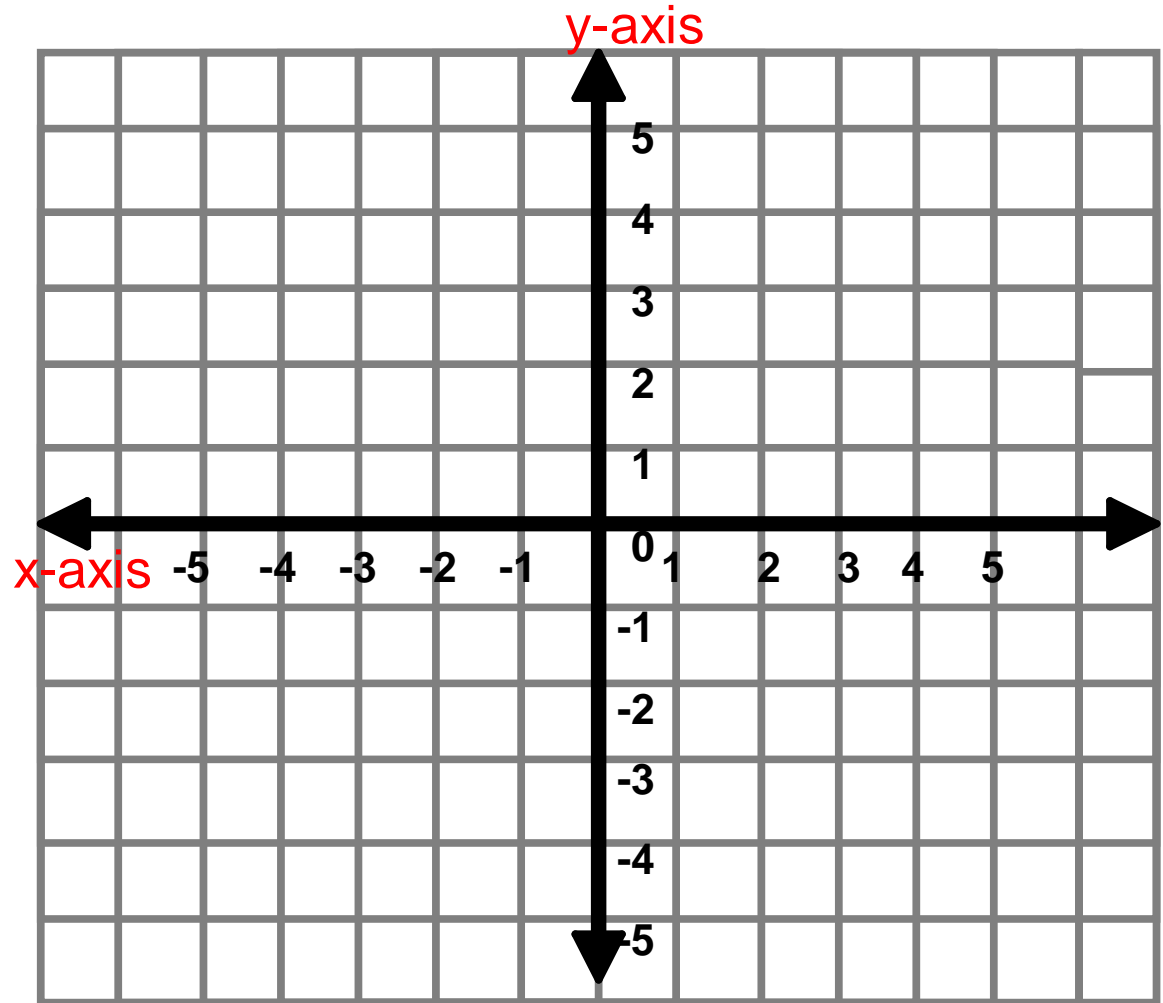
3.  $y = 10x$

4.  $y = 7 - 3x$



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

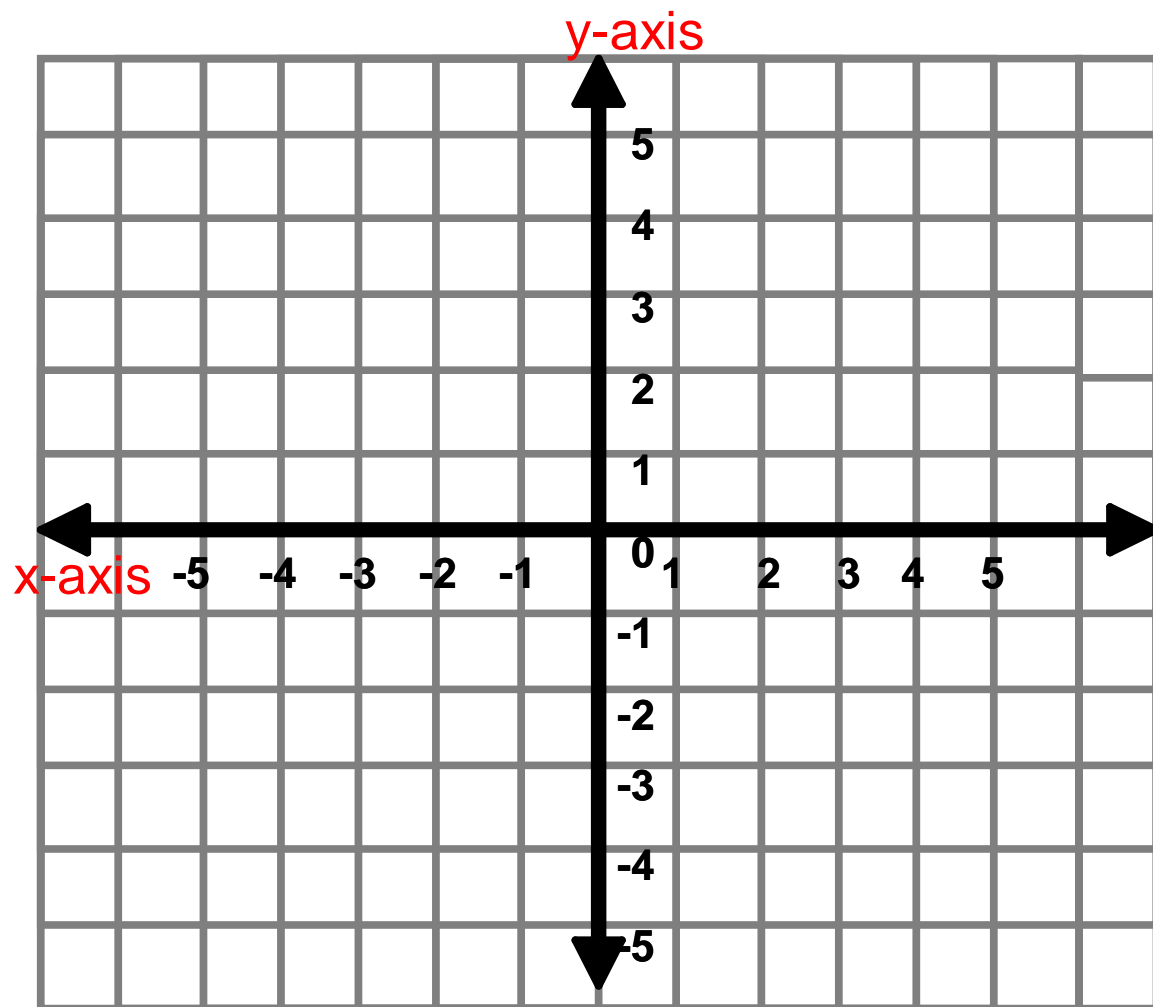
Make an input-output table.



# On Your Own

Graph the function

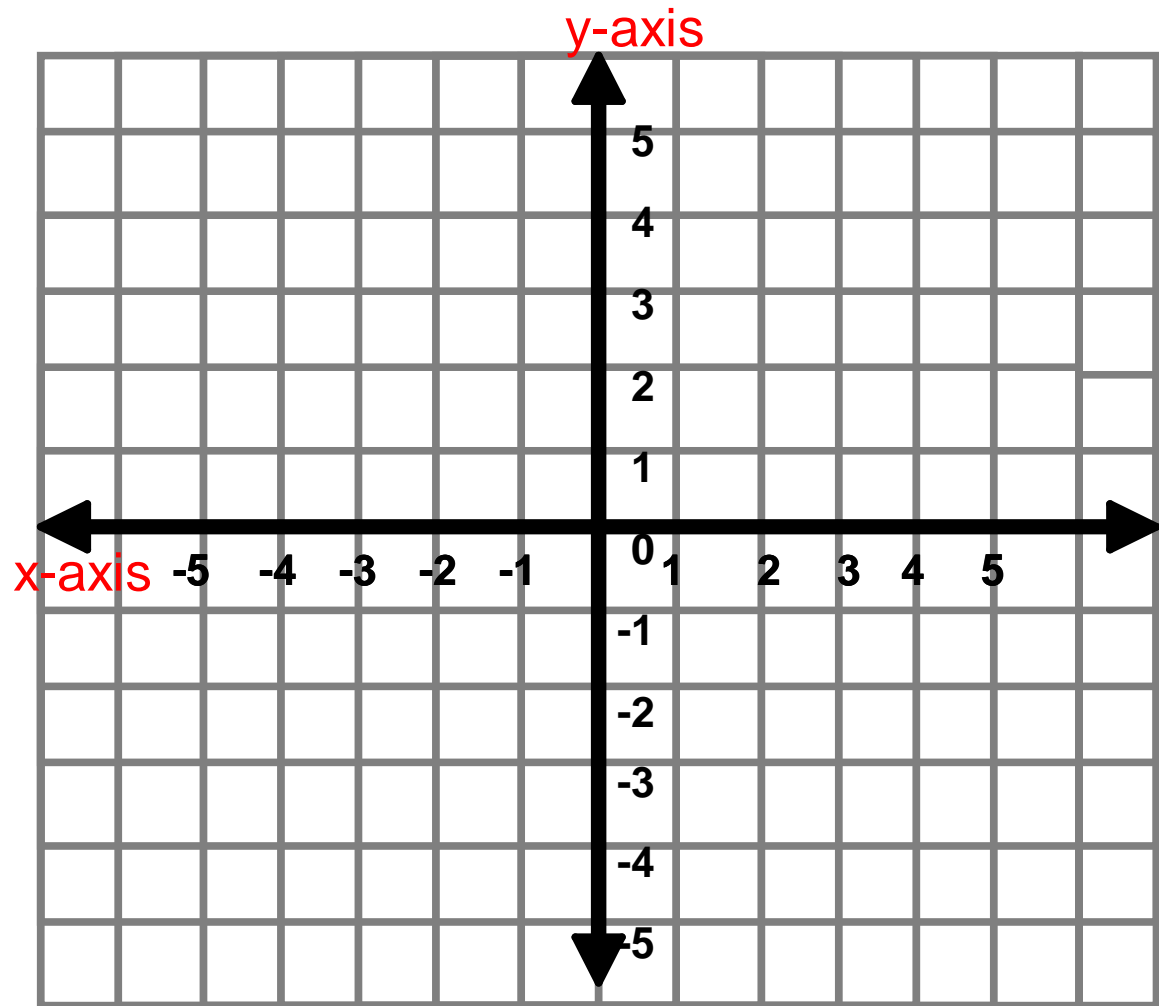
5.  $y = x + 1$



# On Your Own

Graph the function

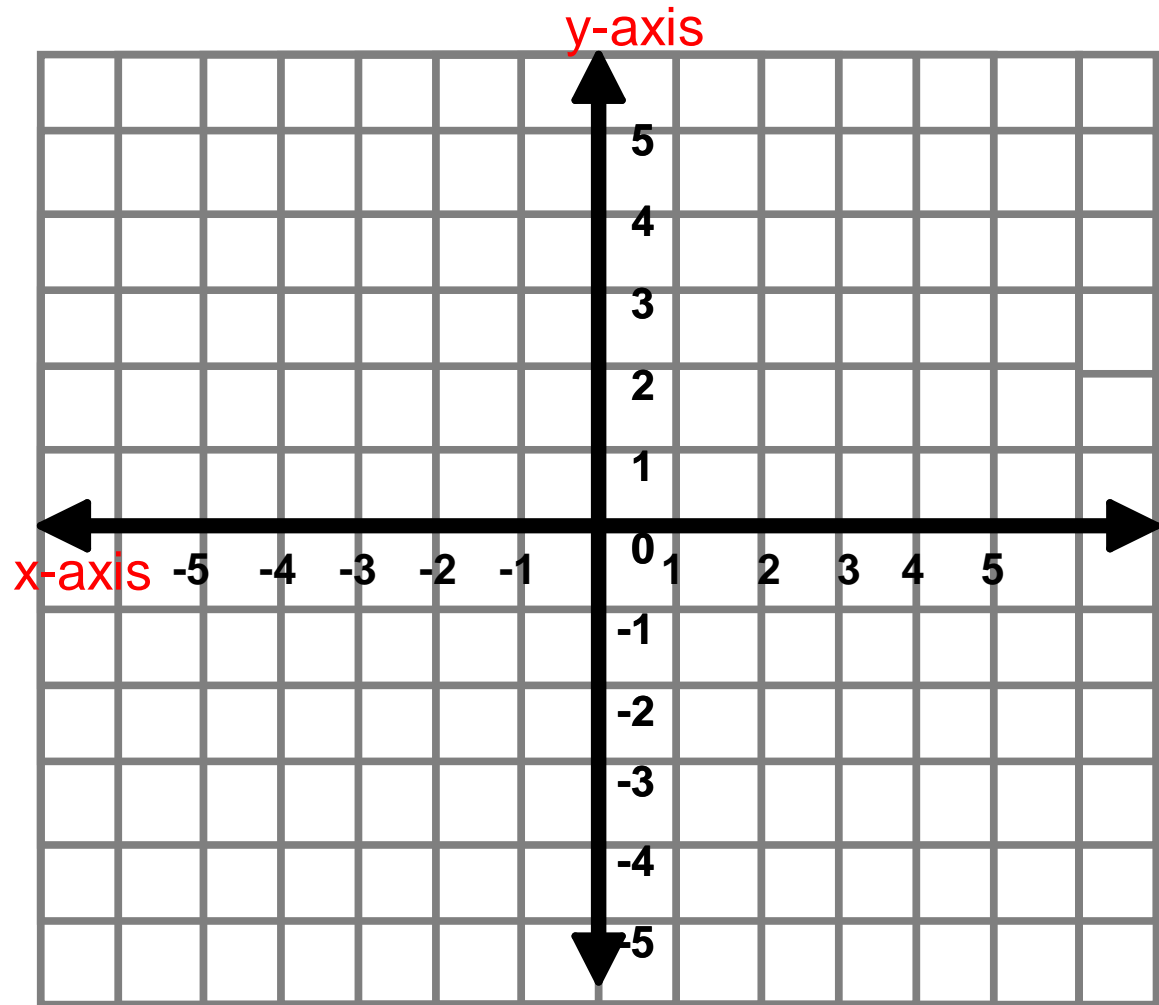
6.  $y = -3x$



# 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  $p$ .

