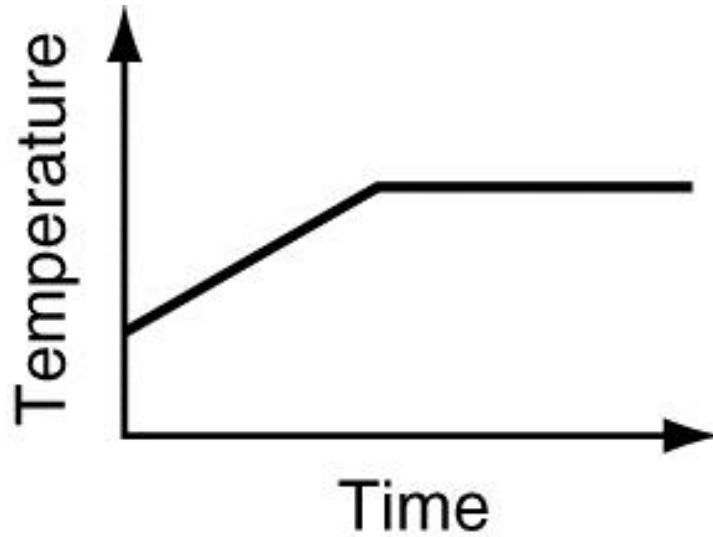


**Station 1:**

Write a scenario to describe this situation. Be sure to use the labels on the x-axis and y-axis to guide your response. Be descriptive.



## Station 2:

Express the relation as a table, a graph, and a mapping diagram.

$$\{(2, 5), (1, 1), (3, 1), (4, 3)\}$$

**Station 3:**

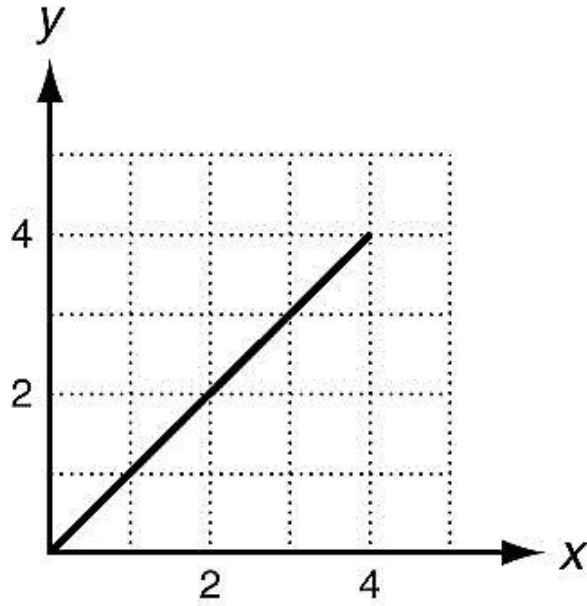
Give the domain and range of the relation and then tell whether or not it is a function. Then graph the given relation.

<b>x</b>	<b>y</b>
1	1
4	4
5	1
5	6

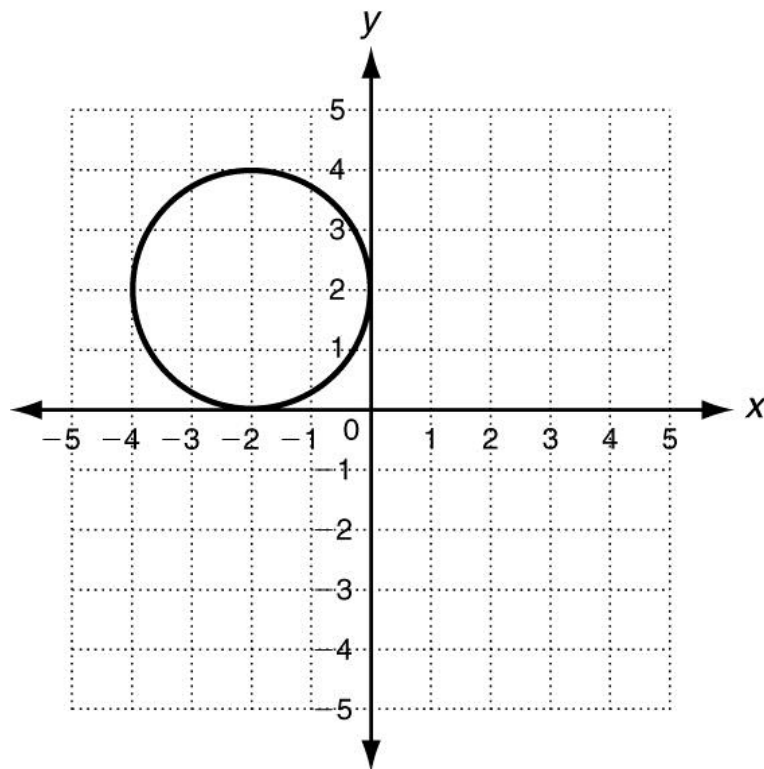
**Station 4:**

Give the domain and range of the relation and then tell whether or not it is a function.

A.)



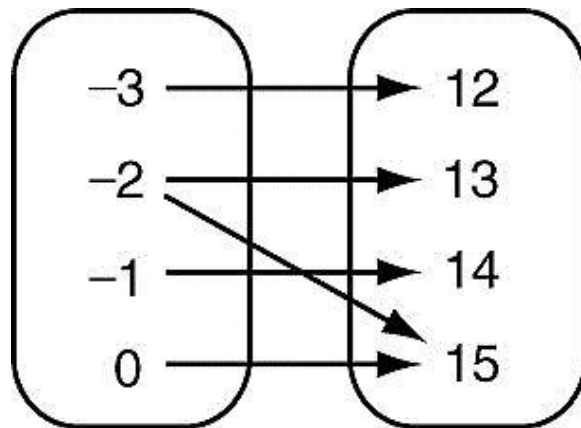
B.)



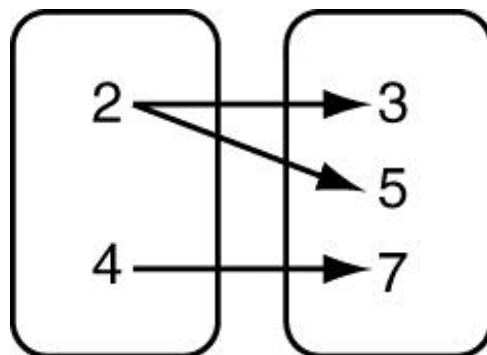
**Station 5:**

Give the domain and range of the relation and then tell whether or not it is a function.

A.)



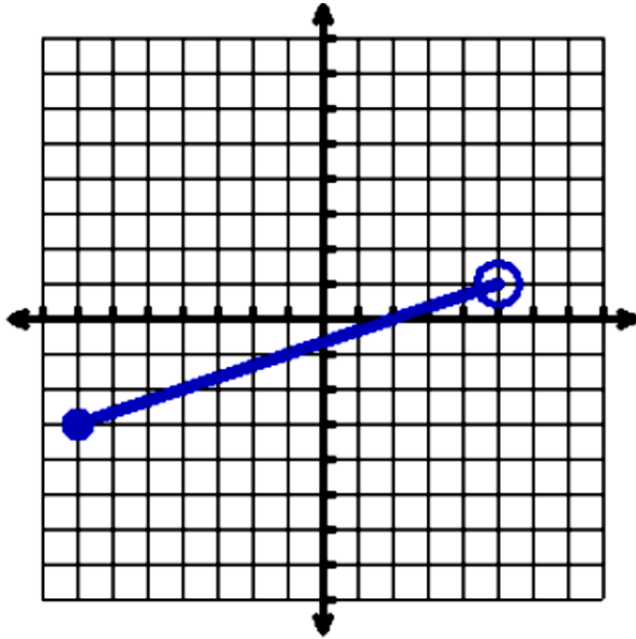
B.)



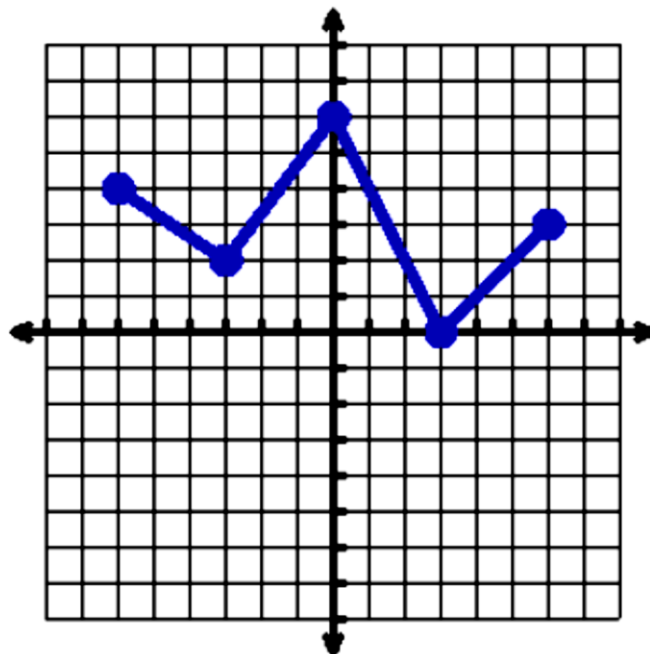
**Station 6:**

Give the domain and range of the relation and then tell whether or not it is a function.

A.)



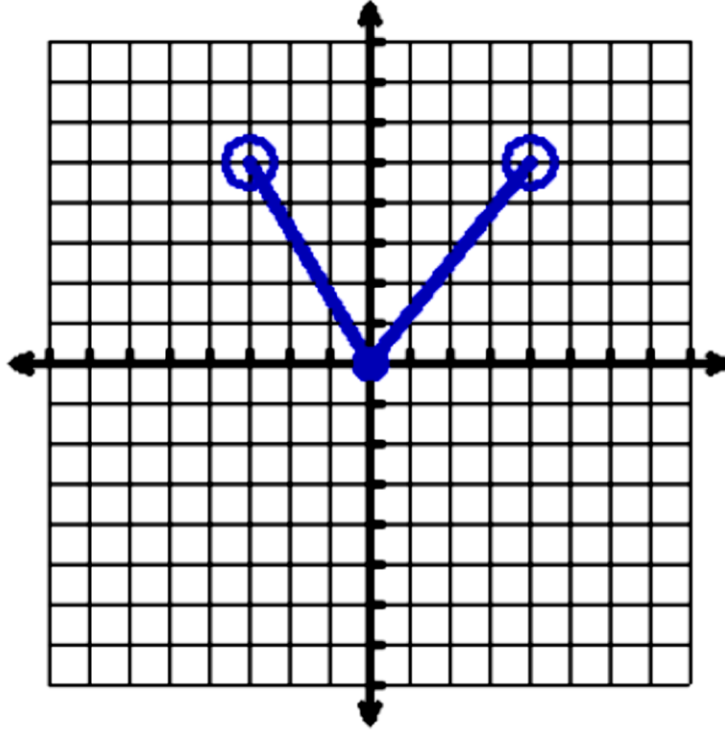
B.)



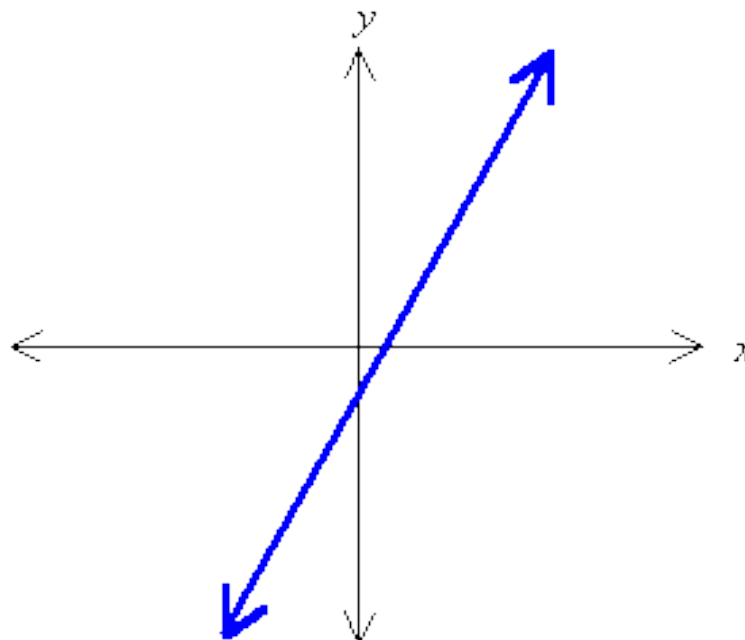
**Station 7:**

Give the domain and range of the relation and then tell whether or not it is a function.

A.)



B.)



**Station 8:**

A.) Write an equation that describes each relationship.

$x$	-3	-2	-1	0
$y$	-9	-6	-3	0

B.) Write an equation that describes each relationship.

<b><math>x</math></b>	<b><math>y</math></b>
-1	-3
0	-1
1	1
2	3



**Station 9:**

**A. ) Write an equation that describes each relationship.**

<b>x</b>	-4	-3	-2	-1
<b>y</b>	-1	0	1	2

**B.) Write an equation that describes each relationship.**

<b>x</b>	<b>y</b>
1	-3
2	-6
3	-9
4	-12

**Station 10:**

**Identify the independent and dependent variable in the situation.**

**Write an equation in function notation for the situation.**

*A.) A tutor's fee is \$65 per hour.*

**Identify the independent and dependent variable in the situation.**

**Write an equation in function notation for the situation.**

*B.) Sirius radio charges a \$10 flat fee plus \$4.99 per month.*

**Station 11:**

**Identify the independent and dependent variable in the situation.**

**Write an equation in function notation for the situation.**

*A.) A gym membership fee is \$100 deposit plus \$10 per month.*

**Identify the independent and dependent variable in the situation.**

**Write an equation in function notation for the situation.**

*B.) A tree trimming company charges \$90 per hour.*

**Station 12:**

**Solve the following equations for  $y$ .**

a.)  $2y - x = 16$

b.)  $6x - 3y = -18$

### **Station 13:**

**Make a table of values and graph them using the given domain.**

$$2y - 2x = 4; \quad D: \{-2, -1, 0, 1, 2\}$$

## Station 14

Make a table of values and graph them using the given domain.

$$-3y - 6x = 9; \quad D: \{-2, -1, 0, 1, 2\}$$

## **Station 15**

Make a table of values and graph them over the set of all real numbers. You may use your calculator.

$$f(x) = x^2 - 2$$

## **Station 16**

**Make a table of values and graph them over the set of all real numbers.**

$$f(x) = |x| + 1$$



## Station 17

Evaluate the function for each of the given values.

$$f(x) = 4x + 4 \text{ when } x = 2 \text{ and } x = -1$$

## Station 18

Evaluate the function for each of the given values.

$$f(x) = -2x - 3 \text{ when } x = 0 \text{ and } x = 2$$

## Station 19

Make a table of values and graph them using the given domain.

$$-2y - 4x = 8; \quad D: \{-2, -1, 0, 1, 2\}$$

## Station 20

Make a table of values and graph them over the set of all real numbers. You may use your calculator.

$$f(x) = 4x - 5$$