

1. Jake averages 20 points per game when he plays at least 30 minutes in a basketball game. What is the functional relationship between the total number of points that Jake scores and the number of minutes he plays in the basketball game.

- A. The number of minutes is dependent on the total number of points.
- B. The total number of points is dependent on the number of minutes.
- C. The total number of points and number of minutes are each dependent on the other.
- D. There is no functional relationship.

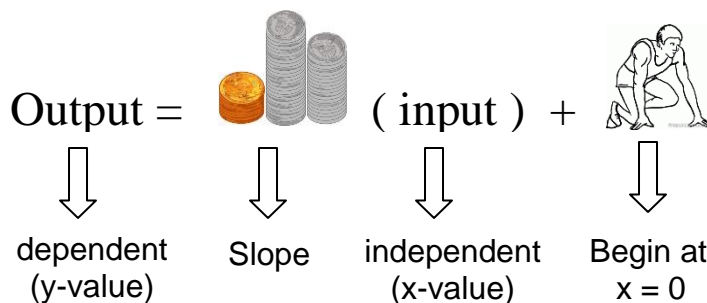
2. Carly notices that her height,  $h$ , is  $\frac{1}{2}$  of her father's height,  $f$ . Which equation best represents this relationship?

A.  $h = \frac{1}{2} f$

B.  $h = -\frac{1}{2} f$

C.  $h = f - \frac{1}{2}$

D.  $h = \frac{1}{2} - f$



### Example #1

#### TABLE

x	y
-2	9
-1	4
0	-1
1	-6
2	-11

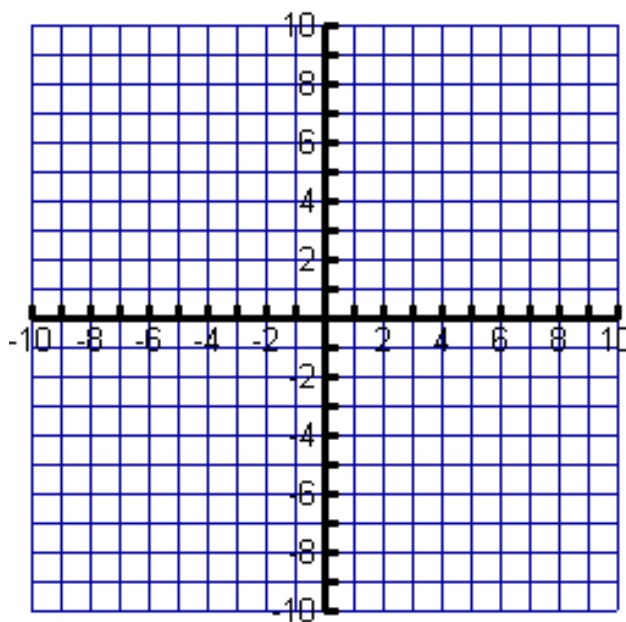
#### INFORMATION

Rate of change:

Beginning:

Does the graph increase or decrease?

#### GRAPH



EQUATION: \_\_\_\_\_

### Example #2

#### TABLE

x	y
-2	
-1	
0	
1	
2	

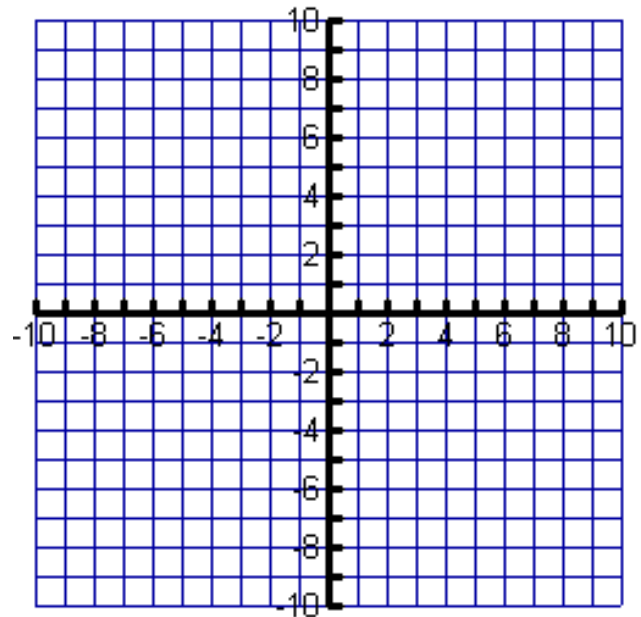
#### INFORMATION

Rate of change:

Beginning:

Does the graph increase or decrease?

#### GRAPH



EQUATION:  $y = 2x + 3$

### Example #3

#### TABLE

x	y
-2	
-1	
0	
1	
2	

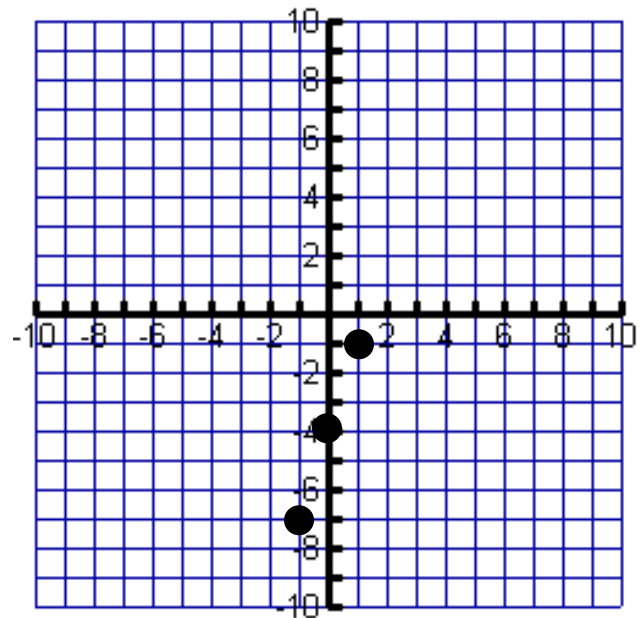
#### INFORMATION

Rate of change:

Beginning:

Does the graph increase or decrease?

#### GRAPH



EQUATION: \_\_\_\_\_