

To rent a car for less than one week from Ace Car Rentals, the cost is \$65.00 per day for the first three days, then \$60.00 a day for each additional day.

Number of Days Car Is Rented	Total Cost (\$)
1	65
2	130
3	195
4	255
5	315
6	375

- Represent this relation as a set of ordered pairs.**
- State the domain & Range.**
- Is this relation a function?**

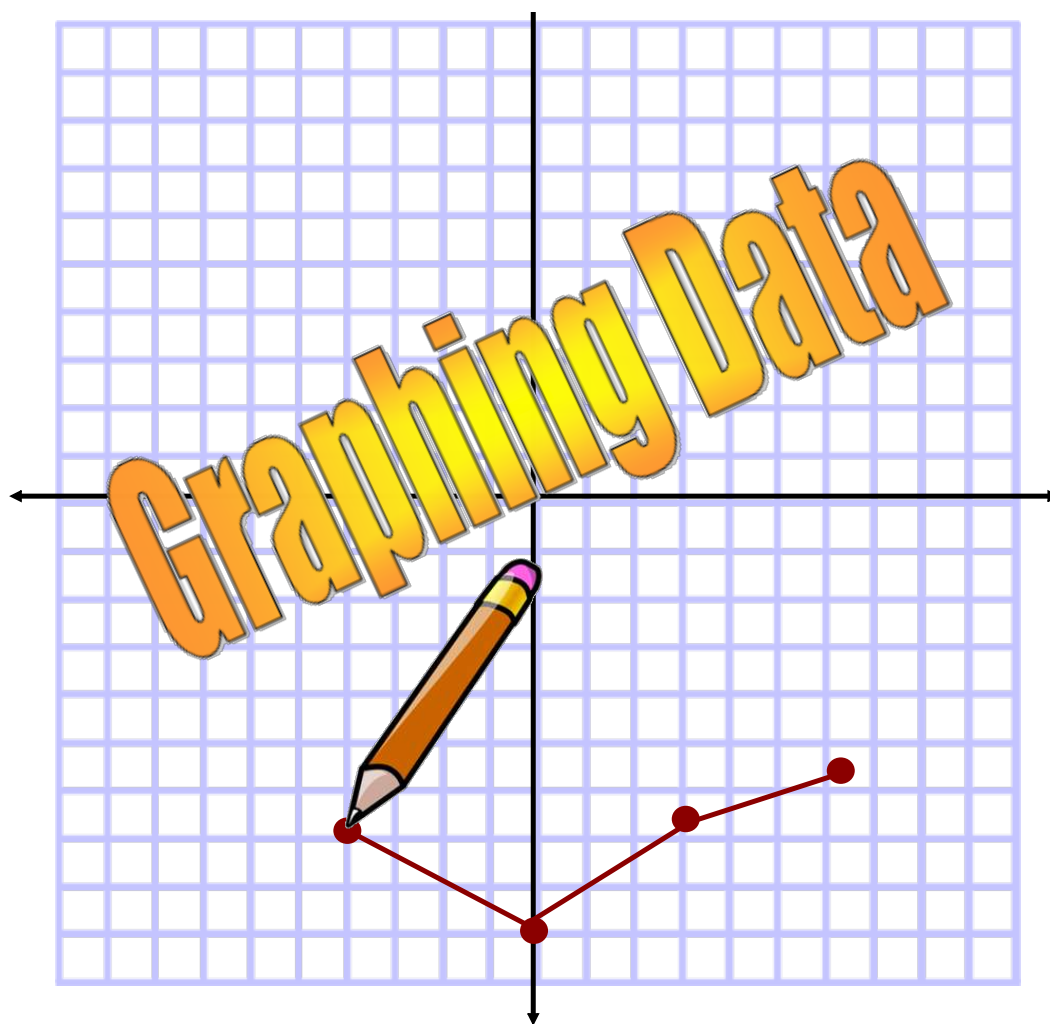
Solution:

a) **First set represents the Number of days the car is rented.**
Second set represents the Total cost of renting the car.
 $\{ (1, 65) , (2, 130) , (3, 195) , (4, 255) , (5 , 315) , (6, 375) \}$

b) **Domain $\{1, 2, 3, 4, 5, 6\}$**
Range $\{65, 130, 195, 255, 315, 375\}$

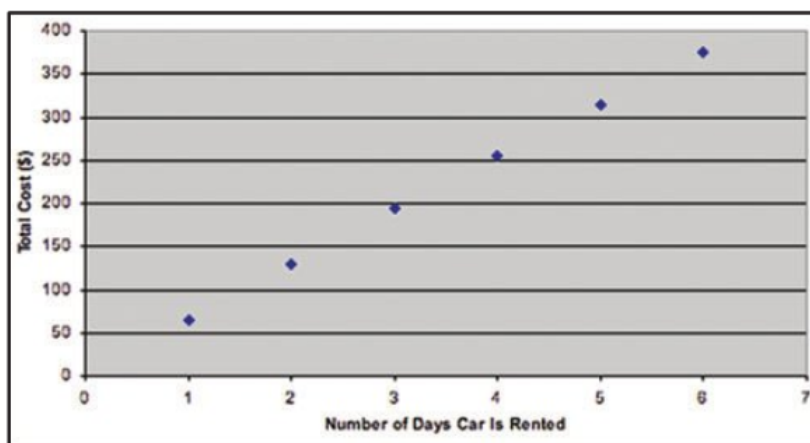
c) **Function**





Compare the Graph with the Ordered Pairs!!

First set represents the number of days the car is rented.
Second set represents the total cost of renting the car.
 $\{ (1, 65), (2, 130), (3, 195), (4, 255), (5, 315), (6, 375) \}$



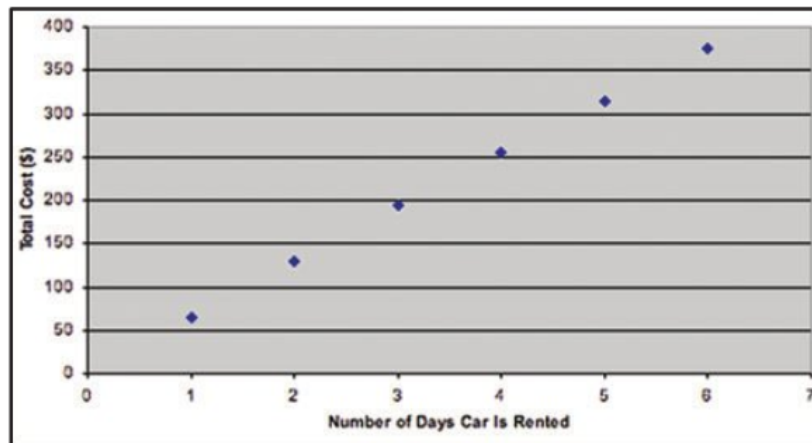
What do you notice?

They are the same as the points on the graph.

Take a look at Domain & Range!!

Domain {1, 2, 3, 4, 5, 6}

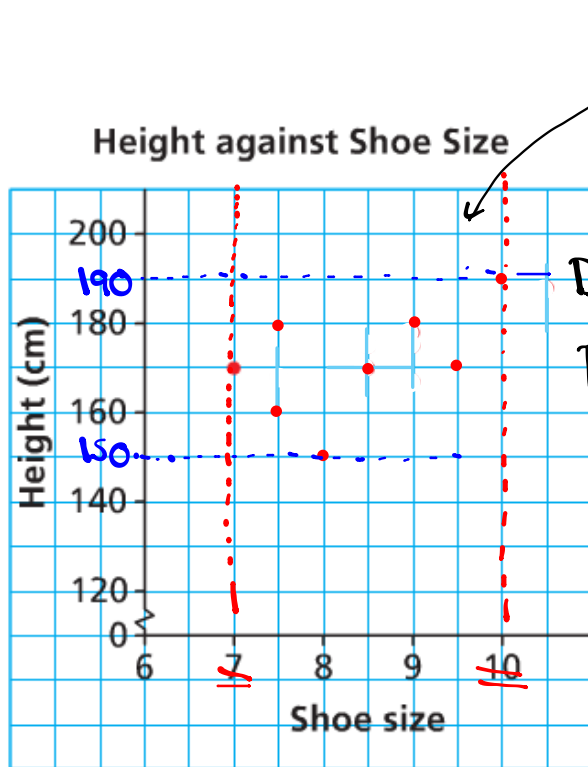
Range {65, 130, 195, 255, 315, 375}



What do you notice?

Domain : represents the values of x (limits on x)

Range: represents the values of y (limits on y)



a) State the domain & range.

$$D \{x \mid 7 \leq x \leq 10, x \in \mathbb{N}\}$$

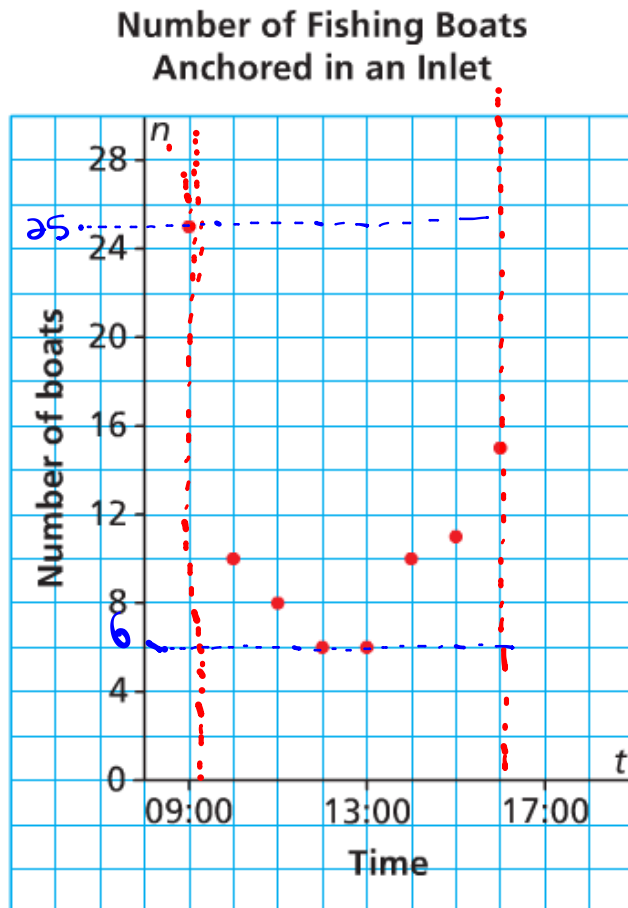
$$R \{y \mid 150 \leq y \leq 190, y \in \mathbb{N}\}$$

b) Is this relation a function?

No

c) Why are the points not connected? Explain.

Shoe sizes are measured by 1/2's



a) State the domain & range.

$$D: \{x \mid 9 \leq x \leq 16, x \in \mathbb{N}\}$$

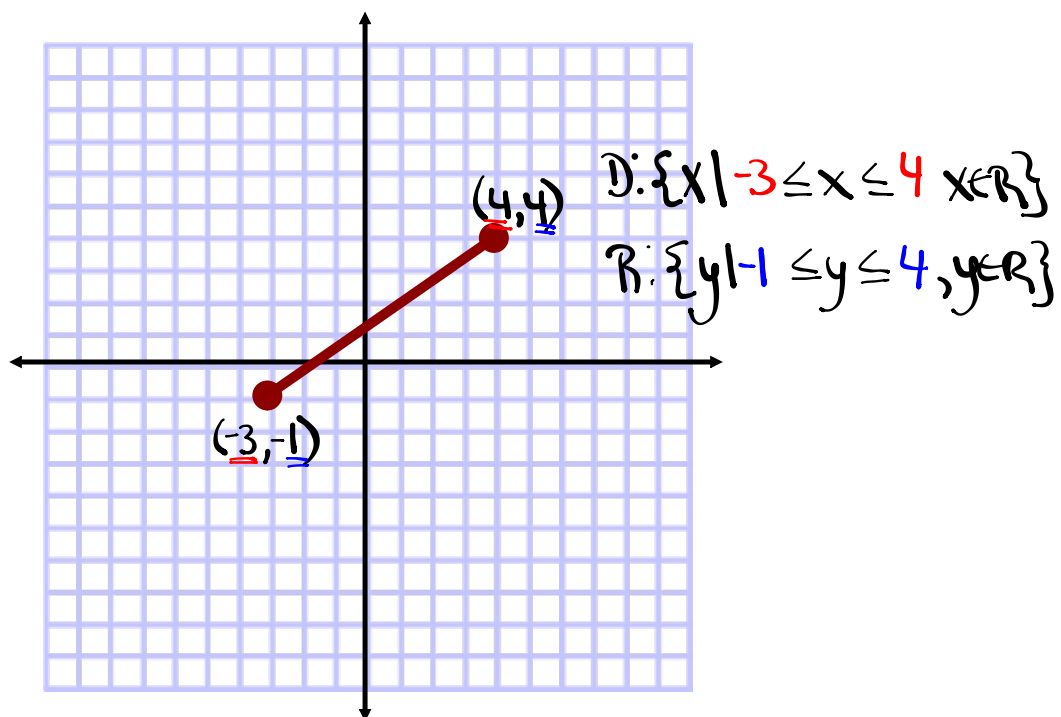
$$R: \{y \mid 6 \leq y \leq 25, y \in \mathbb{N}\}$$

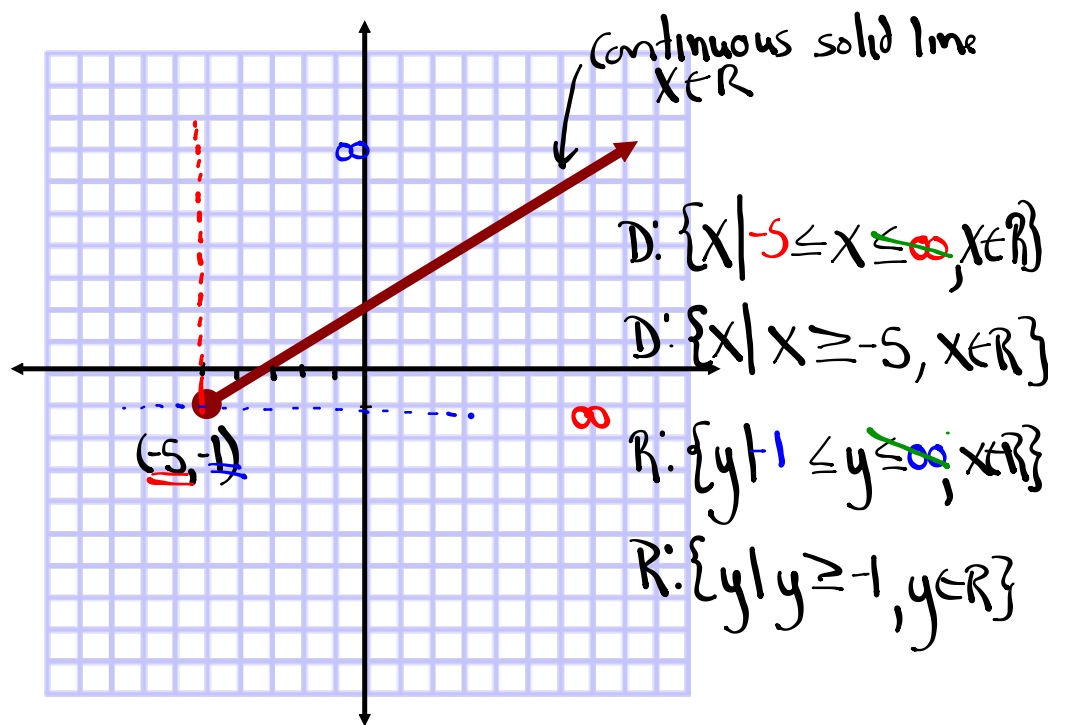
b) Is this relation a function

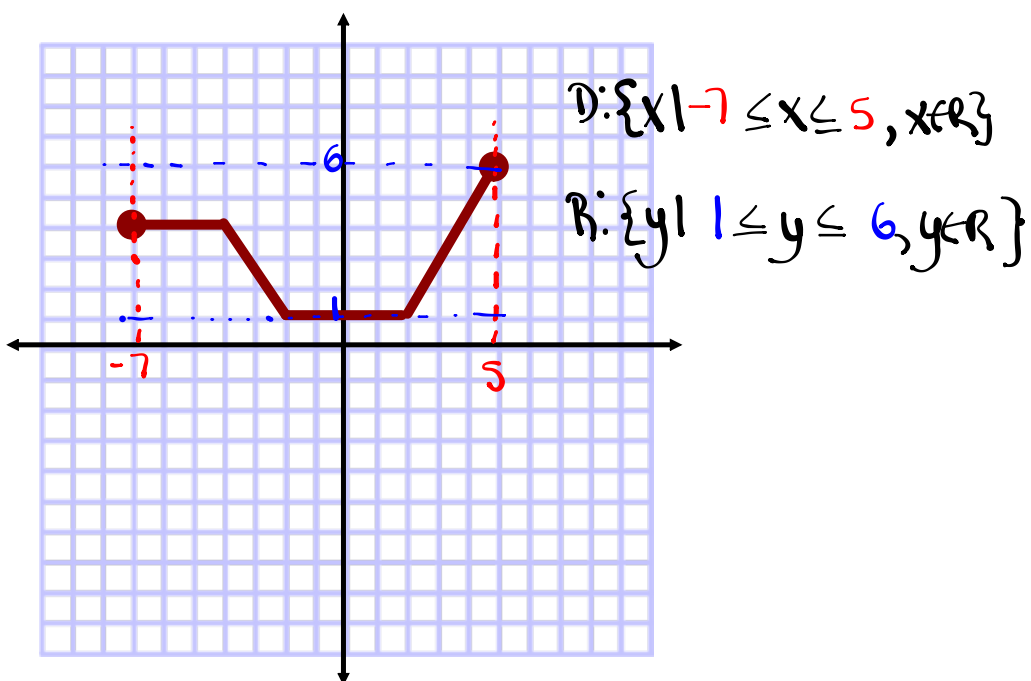
Yes

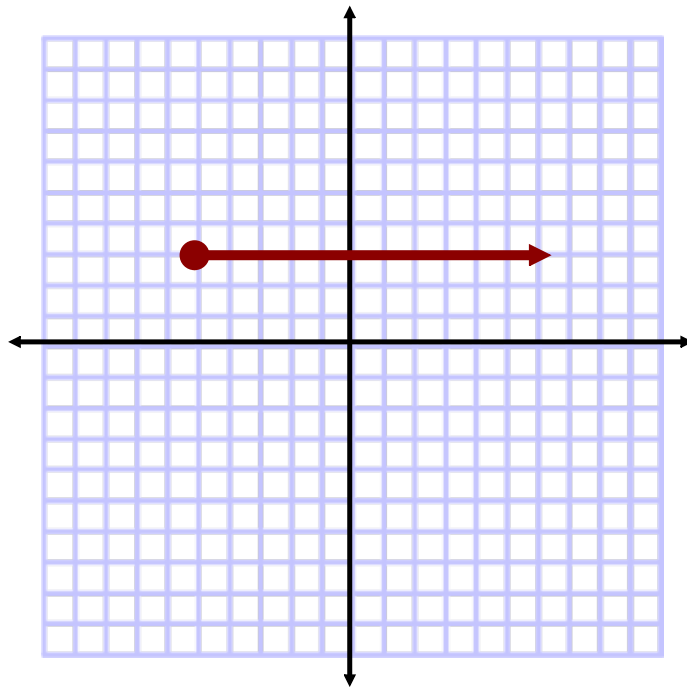
c) Why are the points not connected? Explain

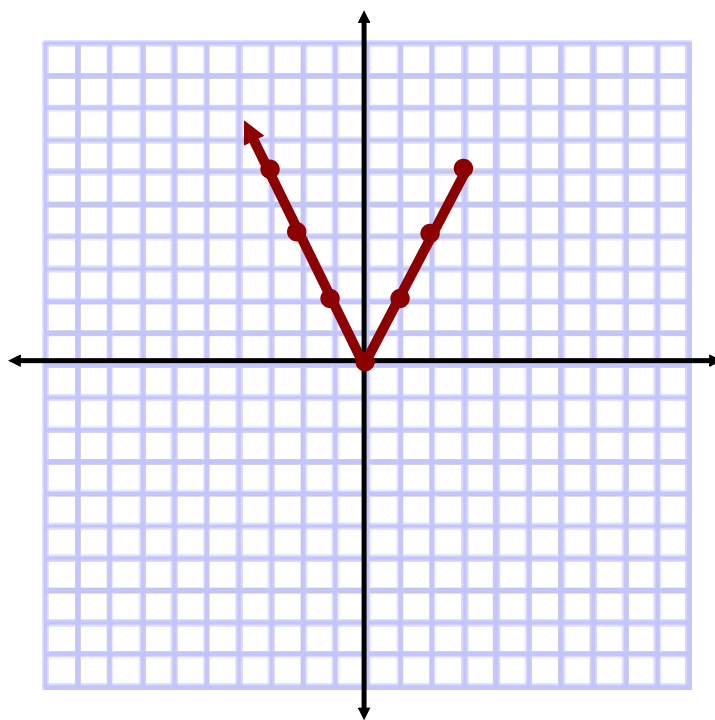
Number of Boats has
to be a Natural #
(No Fractions or Decimals)

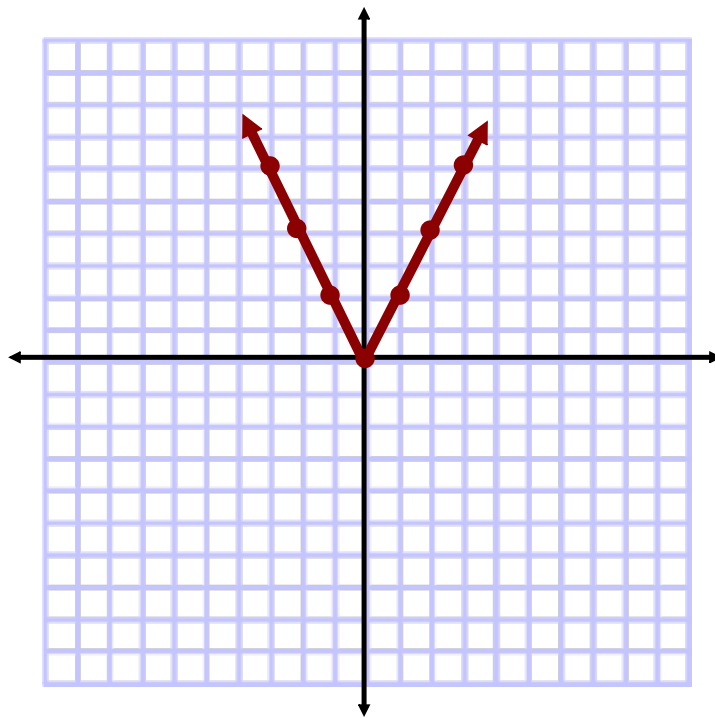


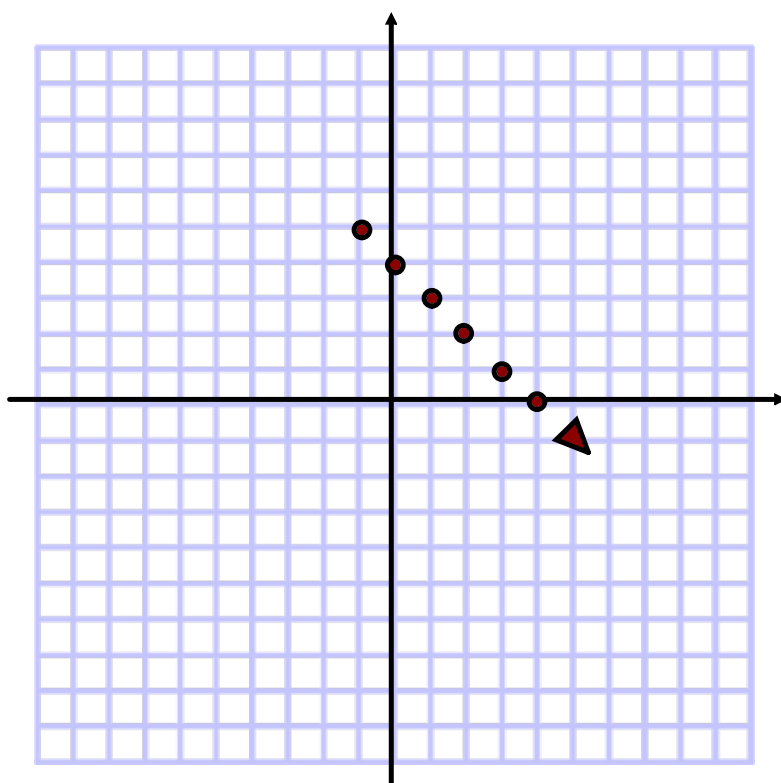


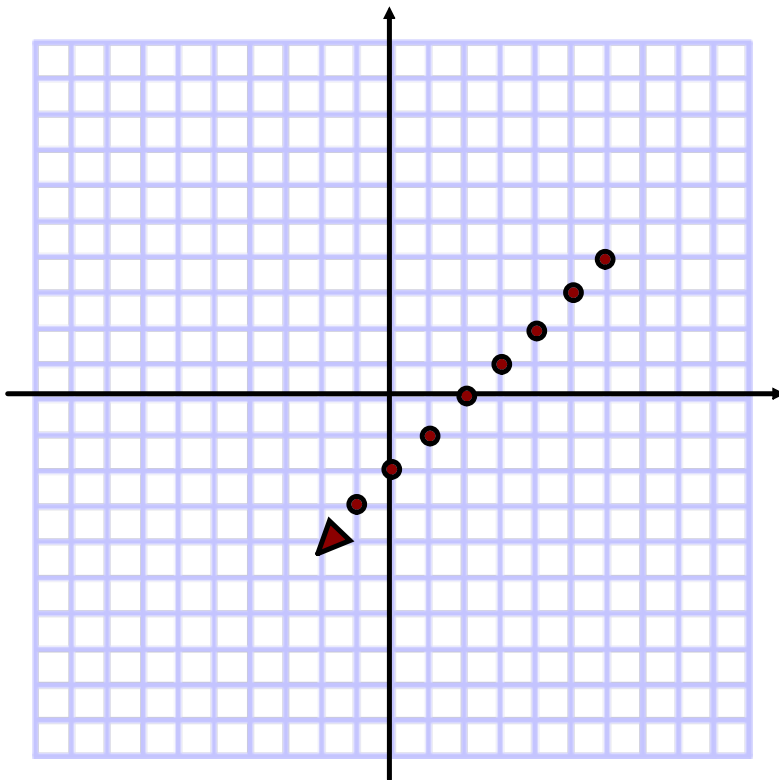


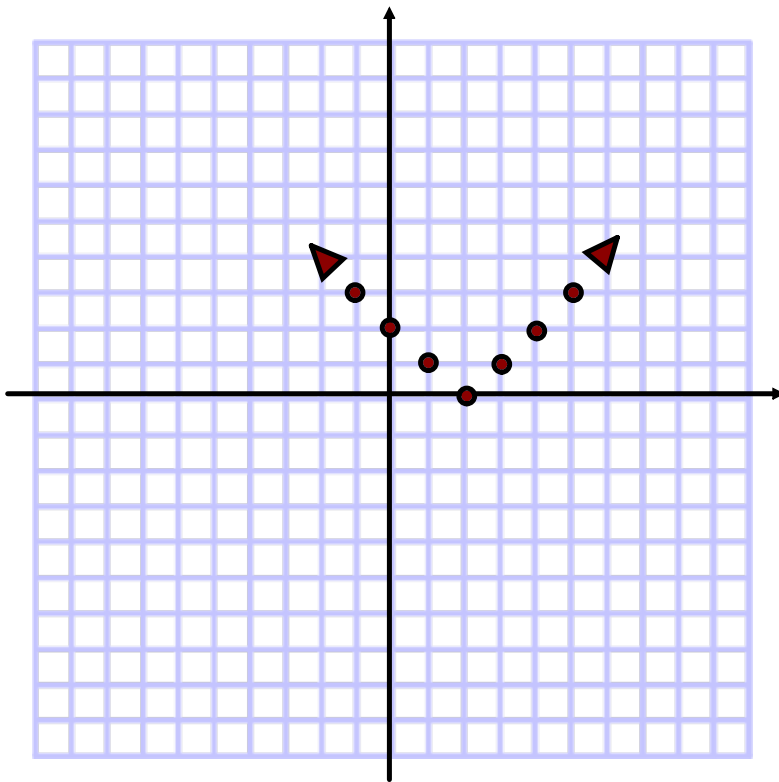


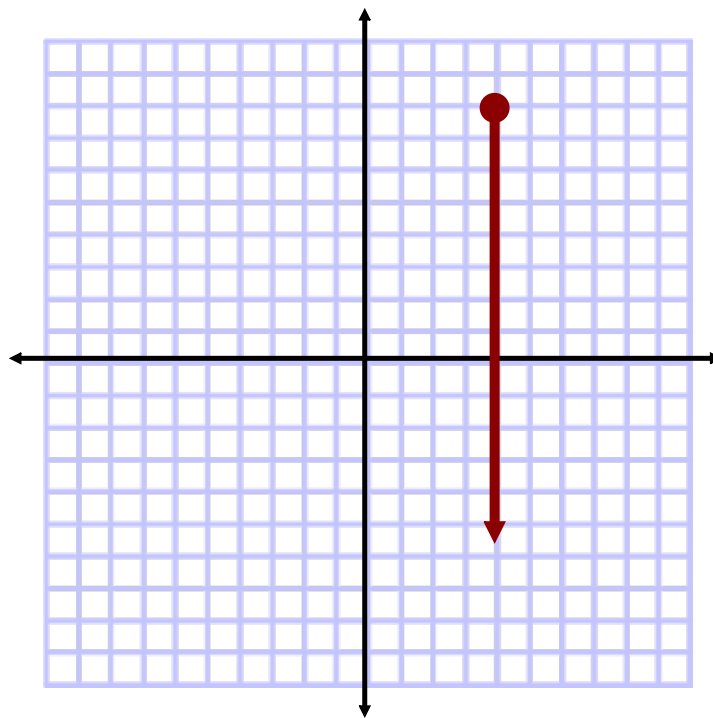


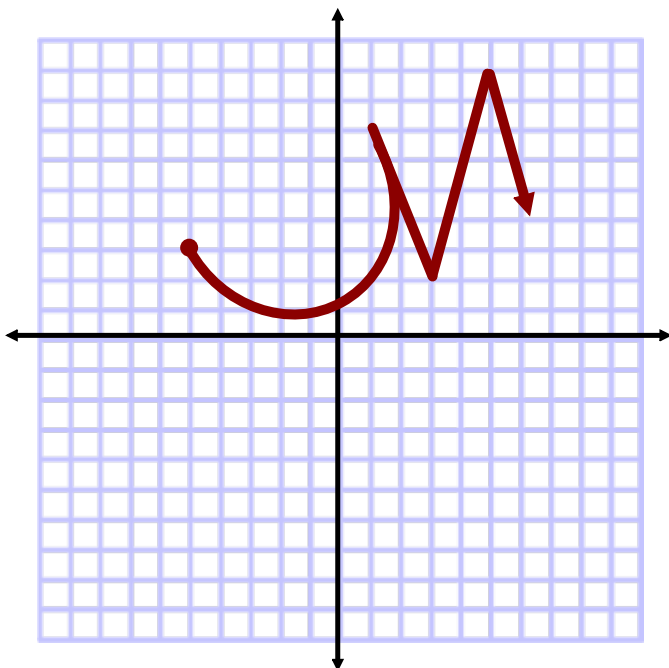












Assignment

Page 294 #4, 6, 7, 8, 9, 10, 11, 12, 14

Graph the Following Relation

Number of Cans of Juice Purchased, n	Cost, C (\$)
1	2.39
2	4.00
3	6.39
4	8.00
5	10.39
6	12.00

