

Quiz 7.2

What is the domain and range of the relation shown in the table provided? Determine if the relation is a function.

1. Domain:

- A. {5,-3, 6, 8}
- B. {5, 11, 9}
- C. {5, 6, 9}
- D. {-3, 5, 8, 11}

2. Range:

- A. {5,-3, 6, 8}
- B. {5, 11, 9}
- C. {5, 6, 9}
- D. {-3, 5, 8, 11}

3. Function?

- A. Function
- B. Not a Function

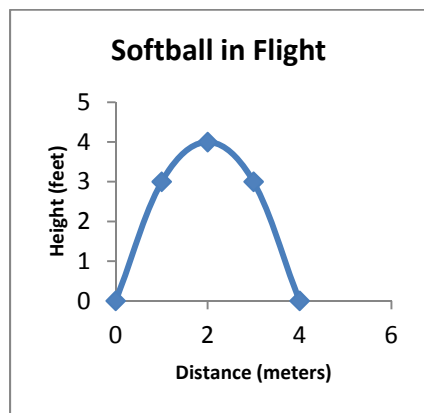
x	y
5	-3
6	8
5	11
9	5

Determine which set of ordered pairs represent a function.

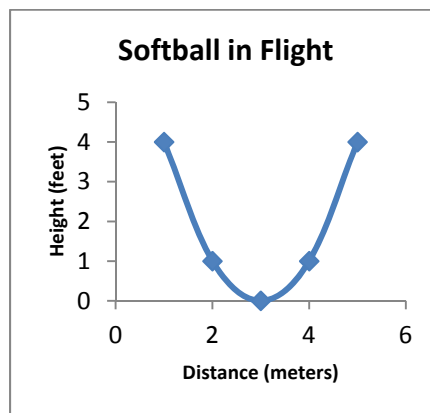
- 4. A. {(11, 5), (3, 9), (3, 1), (6 -4)}
- B. {(6, 12), (18, 4), (10, 2), (18, -3)}
- C. {(9, -1), (2, 9), (4, -2), (9, -7)}
- D. {(16, -3), (9, -3), (7, 4), (-13, 5)}

5. Jackie threw a softball to another player. Which graph best represents the path of the softball through the air?

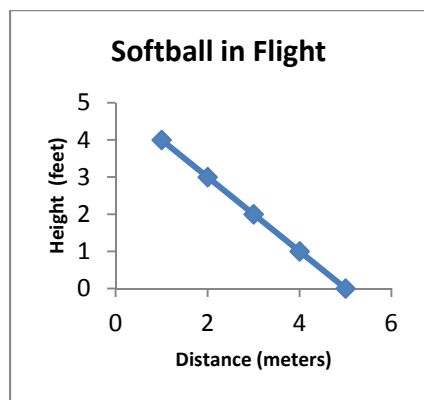
A.



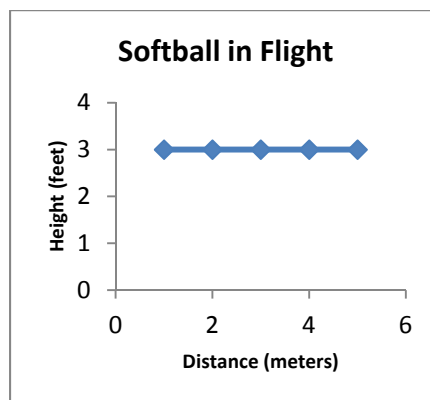
B.



C.

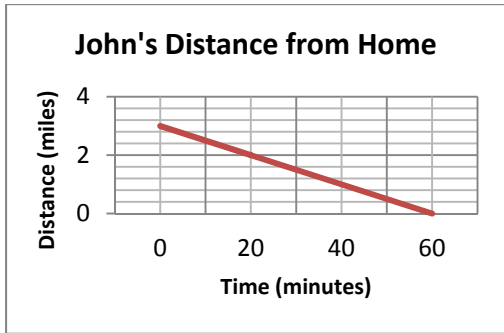


D.

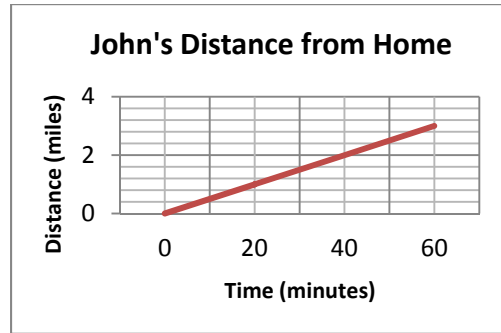


6. John ran down the street as fast as he could to his grandmother's house. He then walked back home with a dozen eggs. Assume John ran along a straight path to his grandmother's home and back again. Which graph best represents John's distance from his home over time?

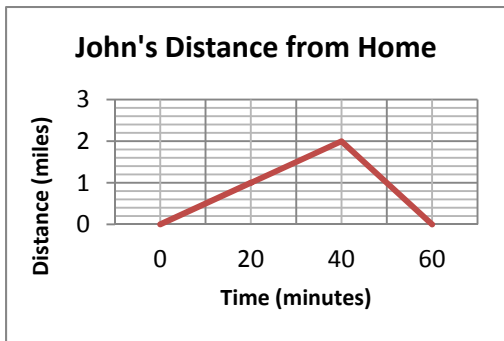
A.



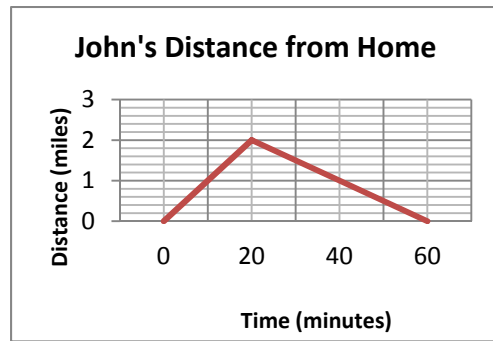
B.



C.



D.



In each of the following problems, a linear equation has been solved incorrectly. You need to determine where the mistake was made and then solve the equation for the correct answer.

7. $9x - 3(2x + 5) = 15$

$9x - 6x - 15 = 15$

$15x - 15 = 15$

$15x = 30$

$x = 2$

8. $12 + 4(2 - 3x) = 16$

$12 + 6 - 12x = 16$

$18 - 12x = 16$

$-12x = -2$

$x = 1/6$

A. Distributed the -3 incorrectly, $10/3$

B. Combined like terms incorrectly, 10

C. Added 15 to both sides incorrectly, 0

D. Divided by 15 incorrectly, 450

A. Distributed the 4 incorrectly, $1/3$

B. Combined like terms incorrectly, $-5/6$

C. Subtracted 18 from both sides incorrectly, $-17/6$

D. Divided by -12 incorrectly, 24