

Name \_\_\_\_\_

Date \_\_\_\_\_

Mrs. Roubos

8R Period \_\_\_\_\_

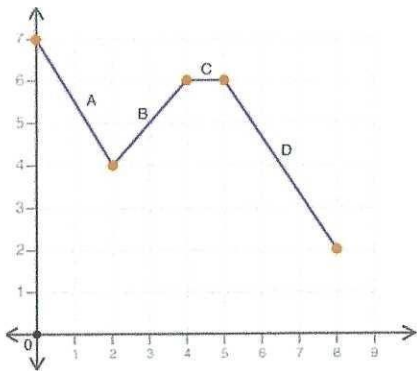
## Classwork Day 7

1) Mr. Smith is buying two types of gift cards to give as prizes to employees at a company meeting. He will buy restaurant gift cards that each cost \$100. He will also buy movie theater gift cards that each cost \$40. He has \$500 to buy a total of 8 gift cards. How many of each type of gift cards can Mr. Smith buy?

- 1) He can buy 6 restaurant gift cards and 2 movie theater gift cards.
- 2) He can buy 3 restaurant gift cards and 5 movie theater gift cards.
- 3) He can buy 4 restaurant gift cards and 4 movie theater gift cards.
- 4) He can buy 7 restaurant gift cards and 1 movie theater gift cards.

Steps: \_\_\_\_\_

2) In which x-interval is the graph below linear and increasing?



\*\*Steps: \_\_\_\_\_

3. Between which two integers does  $\sqrt{82}$  lie on the number line?

\*\* Steps: \_\_\_\_\_

4. Does the following set of ordered pairs represent a function?

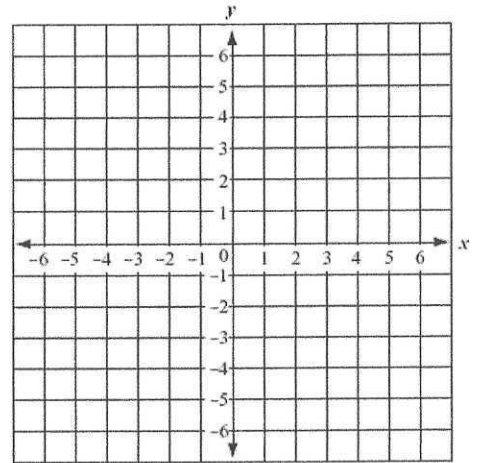
$$\{(4, 6), (5, 7), (4, 8), (3, 2)\}$$

\*\* Rule: \_\_\_\_\_

5. The legs of a right triangle are 15 meters and 8 meters . Find the length of the hypotenuse.

\*\* Steps: \_\_\_\_\_

6. Which of the following best represents the distance between  $(-3, 2)$  and  $(4, 7)$  on the coordinate plane? Round to the nearest tenth.



\*\* Steps: \_\_\_\_\_

7. Which of the following is a rational number?

1)  $\pi$

3)  $\sqrt{15}$

2)  $\frac{3}{7}$

4) 5.69823...

\*\* Definition: \_\_\_\_\_

8. Which of the following is an irrational number?

1)  $\sqrt{25}$

2)  $\sqrt{80}$

3)  $\overline{.13}$

4)  $-7$

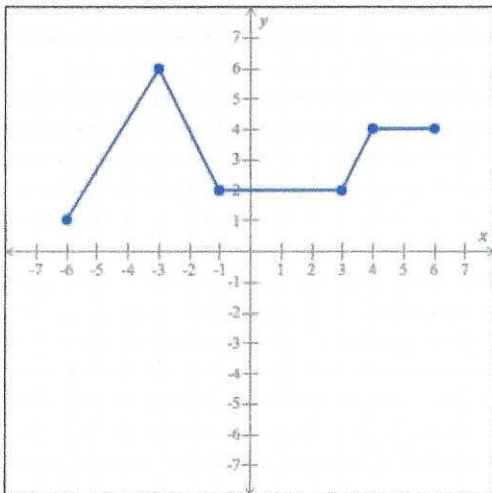
\*\* Steps: \_\_\_\_\_

Now you try!

9. Mr. Smith is buying two types of gift cards to give as prizes to employees at a company meeting. He will buy restaurant gift cards that each cost \$75. He will also buy movie theater gift cards that each cost \$25. He has \$550 to buy a total of 12 gift cards. How many of each type of gift cards can Mr. Smith buy?

- 1) He can buy 5 restaurant gift cards and 7 movie theater gift cards.
- 2) He can buy 8 restaurant gift cards and 4 movie theater gift cards.
- 3) He can buy 3 restaurant gift cards and 6 movie theater gift cards.
- 4) He can buy 6 restaurant gift cards and 6 movie theater gift cards.

10. In which x-interval is the graph below linear and increasing?



11. Between which two whole number does  $\sqrt{40}$  lie on the number line?

12. Which of the following set of ordered pairs is a function? Why?

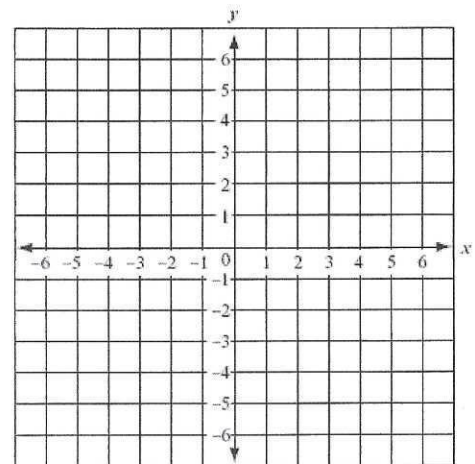
a.  $\{(1, -4), (-2, -5), (5, 5), (-2, 6)\}$

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

c.  $\{(-6, -1), (-3, -4), (0, -4), (-5, -4)\}$

13. The legs of a right triangle are 5 meters and 12 meters . Find the length of the hypotenuse.

14. Which of the following best represents the distance between  $(-5, -2)$  and  $(-2, 3)$  on the coordinate plane? Round to the nearest tenth



15. Which of the following is a rational number?

1) 1.536872...

3)  $\sqrt{13}$

2)  $\sqrt{8}$

4)  $\frac{5}{9}$

16. Which of the following is irrational?

$\sqrt{7}$

$\frac{50}{3}$

6.5

-3