



Relations and Functions Worksheet

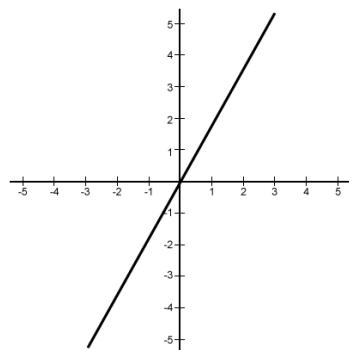
Name: _____

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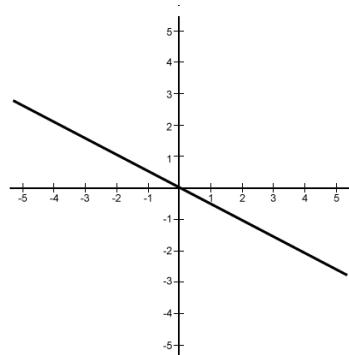
Grade: 8th

Answer the following questions according to the given instructions:

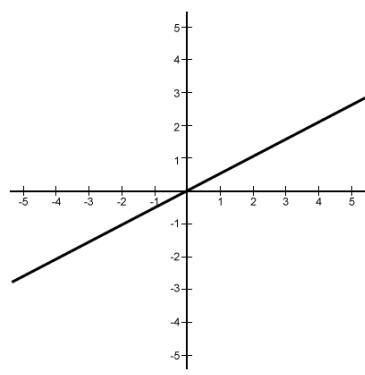
1. Jenny saves \$2 from every hour she works to put into a savings account. Which graph below represents this situation? Circle the correct option.



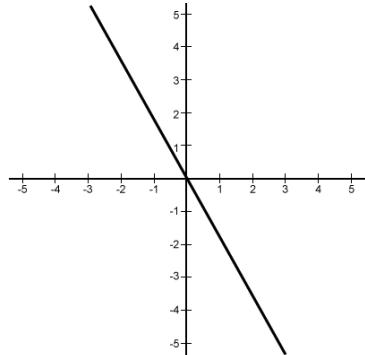
A.



B.



C.



D.



2. Which of the following relations is also a function?:

- A. $\{(2,4), (3,5), (2,7)\}$
- B. $\{(3,5), (4,6), (3,7)\}$
- C. $\{(-2,1), (-2,3), (6,5)\}$
- D. $\{(10,0), (2,4), (-2,6)\}$

Answer: _____

3. Which sets of ordered pairs represent functions?

- A. $\{(4,6) (5,7) (6,8) (7,9)\}$
- B. $\{(1,8) (2,8) (3,8) (4,8) (5,8)\}$
- C. $\{(2,4) (2,7) (6,4) (12,10) (15,5)\}$
- D. $\{(3,5) (3,9) (3,11) (3,15)\}$

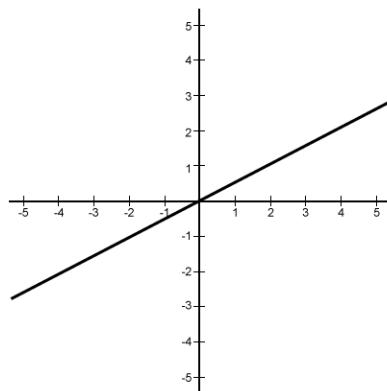
Answer: _____

4. A domain is

- A. a mathematical sentence starting that two quantities are equal.
- B. an expression that has a root.
- C. the set of x-coordinates in a relation.
- D. None of the above.

Answer: _____

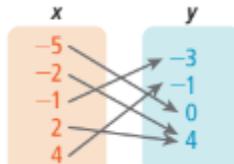
5. Is this a function?:



- A. Yes.
- B. No.
- C. Not enough information.
- D. Sometimes.

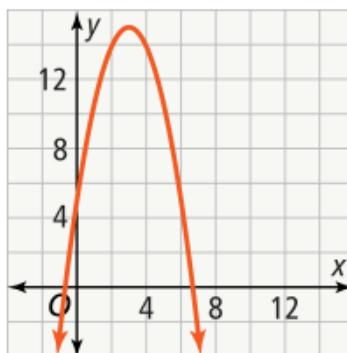


6. Is this a function?:



- A. Yes.
- B. No.
- C. Not enough information.
- D. Sometimes.

7. The graph shows the height of a thrown ball x seconds after it is thrown. Based on the situation, are there any constraints on the domain of the function?:



- A. Yes.
- B. No.
- C. Not enough information.
- D. Sometimes.

8. What are the domain and the range of the following function?:

x	1	2	3	4	5
y	11	12	13	13	13

Domain: _____ Range: _____

9. A hose fills a 10,000-gallon swimming pool at a rate of 10 gallons per minute. A function can model this situation. What is a reasonable domain and range of this function?

Domain: _____ Range: _____

10. A restaurant needs to order chairs for its tables. One table can accommodate four chairs. A function can model this situation. What is a reasonable domain and range of this function?

Domain: _____ Range: _____