READY, SET, GO!

Name

Period

Date

READY

Topic: Determine domain and range and whether the relation is a function or not. Determine if each set of ordered pairs is a function or not and then state the domain and range.

Determine if each set of ordered pairs is a function, then state the domain and range.

Function: Yes / No

Domain:

Range:

$$2.\{(9,2),(0,4),(4,0),(5,3),(2,7),(0,-3),(3,-1)\}$$

Function: Yes / No

Domain:

Range:

$$3.\{(1,2),(2,3),(3,4),(4,5),(5,6),(6,7),(7,8),(8,9)\}$$

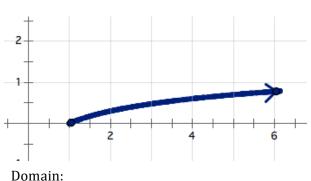
Function: Yes / No

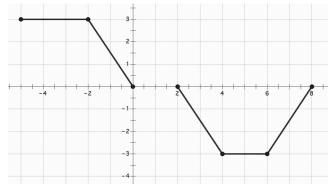
Domain:

Range:

Determine the domain and range for each of the given functions.

4.





Range:

Domain:

Range:

6.
$$f(x) = -2x + 7$$

7.
$$g(x) = 3(5)^x$$

8. The elements in the table define the entire function.

Domain:

Domain:

Range:

Range:

Domain:
Range:

X	h(x)
1	9
2	98
3	987
4	9876

SET

Topic: Determine whether or not the relationship is a function.

Determine the domain and range then determine whether or not the relationship is a function.

- 9. The distance a person is from the ground related to time as they ride a Ferris Wheel.
- 10. The amount of daylight during a day throughout the calendar year.
- 11. The value of a Volkswagen Bug convertible from time of first purchase in 1978 to now.
- 12. A person's name and their phone number.
- 13. The stadium in which a football player is playing related to the outcome of the game.

GO

Topic: Determine the features of functions.

14. Describe the function in the graph.

Write the intervals where it is decreasing and/or increasing.

Identify the min and/or max.

-5 5 -2

State the domain and range.

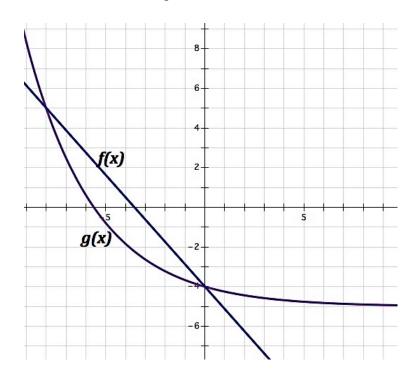
15. For each situation use the given function to find and interpret solutions.

Hope has been tracking the progress of her family as they travel across the country during their vacation and she has created a function, d(t)= 78t to model the progress they are making.

- a. What would Hope be attempting to find if she writes d(4) = 78(4)?
- b. What would the expression d(t) = 450 mean in this situation?
- c. What would the expression d(3.5) mean in this situation?
- d. How could Hope use the function to find the time it would take to travel 800 miles?

16. Use the given representation of the functions to answer the questions.

- a. Where does f(x) = g(x)?
- b. What is g(0) + f(0)?
- c. On what interval(s) is g(x) > f(x)?
- d. What is g(-8) + f(-8)?



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