Ready, Set, Go!

Ready

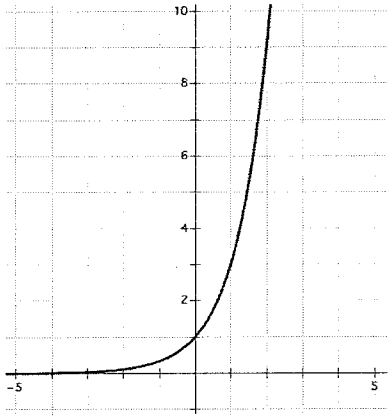
Topic: Find the output or input based on what is given.

For each function find the desired solutions.

1. $h(t) = 2t - 5$

a. $h(-4) =$ ____ b. $h(t) = 23, t =$ ____ c. $h(13) =$ ____ d. $h(t) = -33, t =$ ____

2. $g(x)$



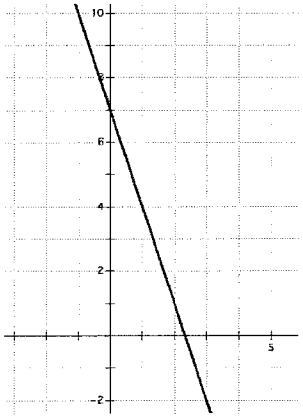
a. $g(2) =$ ____

b. $g(x) = 3$, $x =$ ____

c. $g(0) =$ ____

d. What is the explicit rule for $g(x)$

3. $r(x)$



a. $r(-1) =$ ____

b. $r(x) = 4, x =$ ____

c. $r(2) =$ ____

d. What is the explicit rule for $r(x)$

Features of Functions | 5.9

Set

Topic: Describing the key features of functions and creating a representation of a function given the key features.

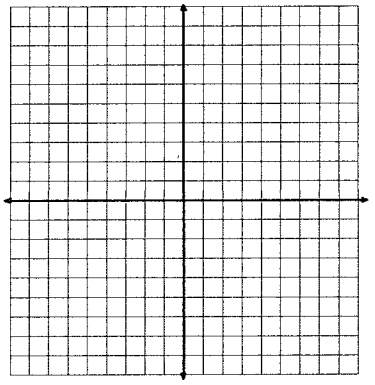
Use the given description of several of the key features of the function to sketch a possible graph of the function.

4. Domain contains all Real numbers between -2 and 3.

   Range contains all Real numbers between 3 and 7.

   The function is increasing from -2 to 0 and decreasing after 0.

   The function is not continuous at every point.

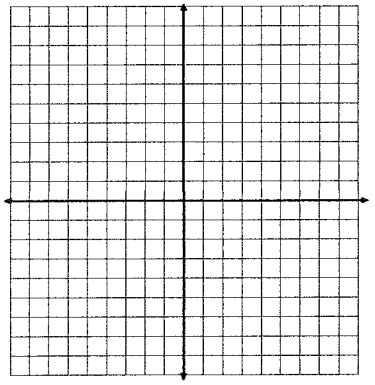


5. The function has a minimum at -5.

   The function has a maximum at 8.

   The function has two intervals on which it is decreasing and one interval on which it is increasing.

   The Domain of the functions contains all Real numbers from 1 to 9.

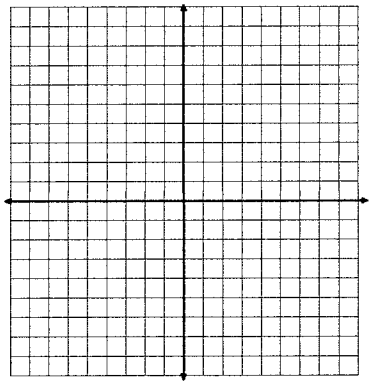


6. This function is not continuous anywhere.

   The function contains only seven elements in its domain.

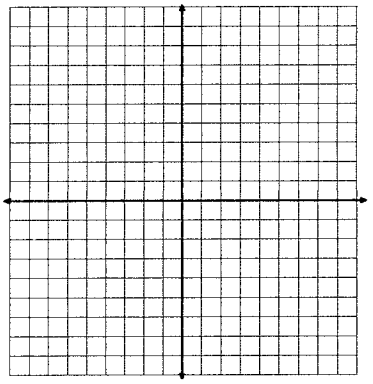
   The values of the domain are between -10 and 2.

   The values of the range are between -1 and 1.



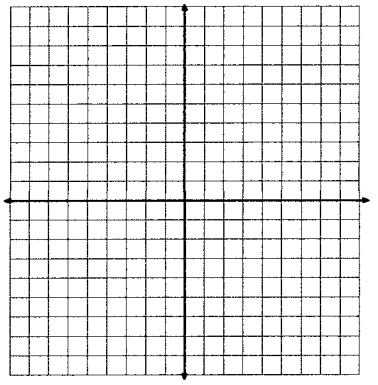
7. The function has three intervals on which its slope is zero.

   The function has a maximum and a minimum.



8. The domain of the function is [-5, ×)

   The range of the function is [0, ×)

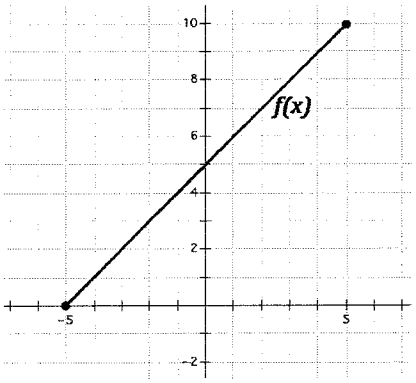


Go

Topic: Determine the following for each function: domain, range, discrete, continuous, increasing, decreasing, etc.

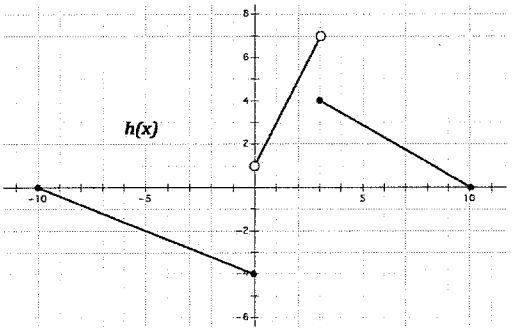
Given the representation of the function(s) provided determine the domain, range, and whether the function is discrete, continuous, increasing, decreasing, etc.

9.

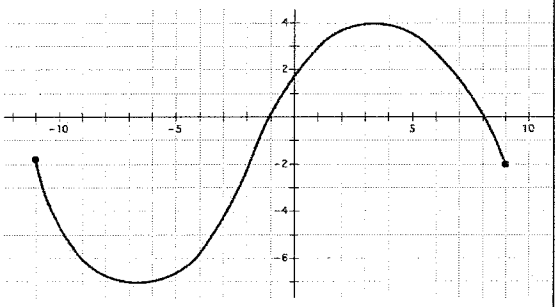


Description of Function:

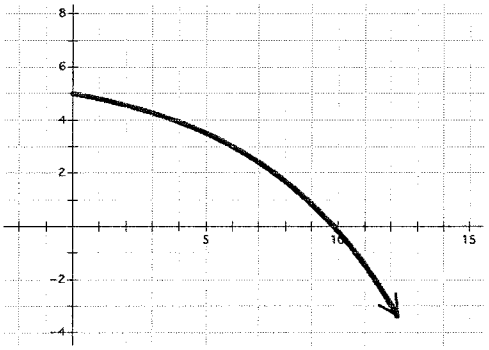
10.



Description of Function:

11. 

Description of Function:

12. 

Description of Function:

13. $f(0) = 2, f(n+1) = 3(f(n))$ Description of Function:

14. $g(x) = -9 + 4x$ Description of Function:

15. $f(x) = |x|$ Description of Function: