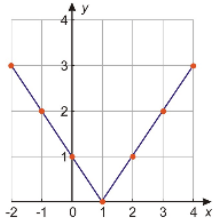


Identify the domain and range of the function.

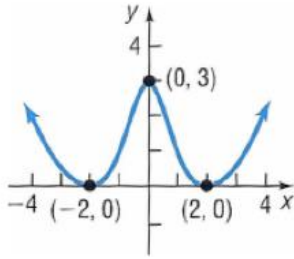
1.



D: _____

R: _____

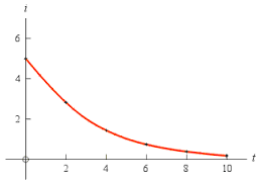
2.



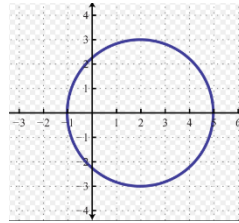
D: _____

R: _____

3. Name a value that is in the domain, but is not in its range.



4. Name a value that is in the range, but is not in its domain.



5. Which transformation of $y = f(x)$ moves the graph 5 units to the right and 2 units up?

6. Which transformation of $y = f(x)$ would expand vertically by a factor of 3, reflect across the x-axis, and translate 4 units left and 6 units down?

Find the inverse for the following:

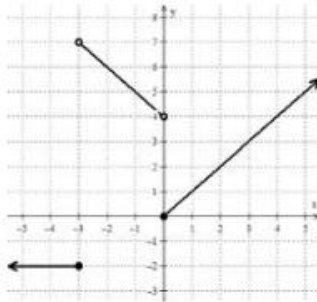
7. $y = 3x + 1$

8. $y = \sqrt{-3x+1}$

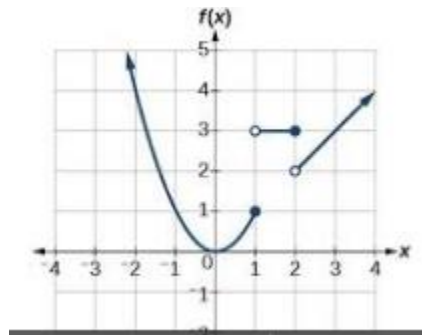
9. $y = (x-4)^4$

Write a piecewise function from the following graphs.

10.



11.



12. Find $f(-6)$ for the given piecewise function:

$$f(x) = \begin{cases} x^2 + 1; & x \leq -1 \\ x + 4; & -1 < x < 2 \\ 5; & x \geq 2 \end{cases}$$

13. Find the function values for the given piecewise function:

$$f(x) = \begin{cases} x^2, & x < 0 \\ 2, & 0 \leq x \leq 3 \\ 4 - x, & x > 3 \end{cases}$$

$f(-8)$ _____

$f(1.75)$ _____

$f(17)$ _____