

1. Find the domain and range of the relation  $\{(4, 1), (5, 1), (6, 1)\}$ . Also, is the relation a function?

2. For the function  $f(x) = 4x - 3$ , find  $f(-2)$ ,  $f\left(\frac{3}{4}\right)$ , and  $f(a + 2)$ . Be sure to simplify your results.

3. For the function  $g(x) = 2x^2 - 3x + 1$ , find  $g(-1)$  and  $g(2x)$ . Be sure to simplify your results.

4.

$x$	$f(x)$
-5	3
-3	12
0	2
3	7
5	12

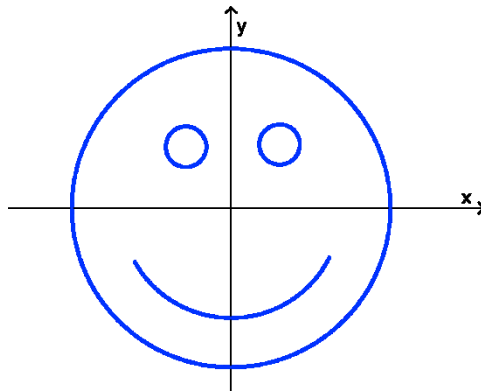
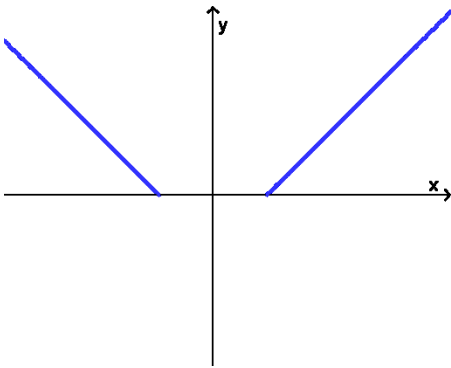
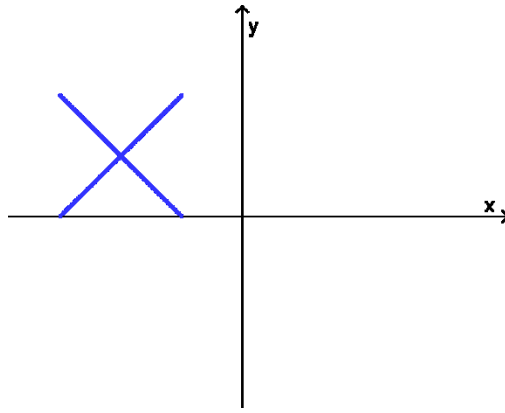
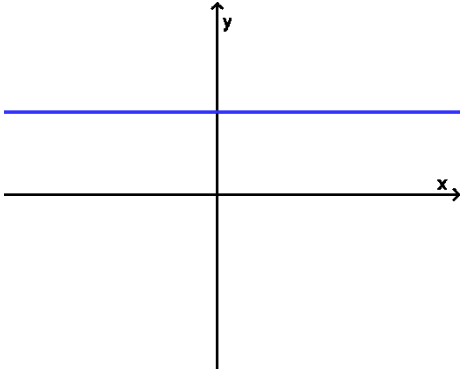
a) What are the domain and range of  $f$ ?

b)  $f(3) =$

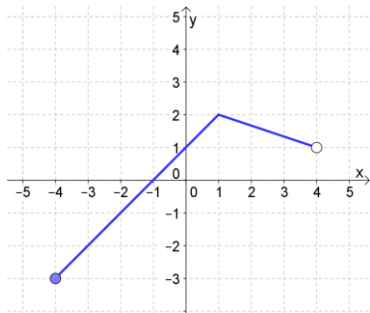
$f(0) =$

c) Find  $x$  such that  $f(x) = 12$ .

5. Which of the following graphs are functions?



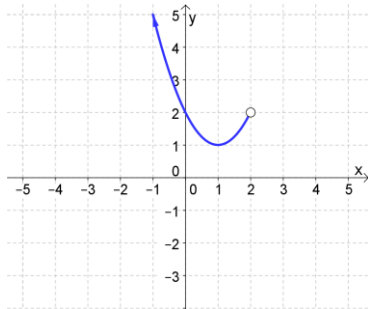
6. Use the graph of each function to find its domain and range.



a)

Domain \_\_\_\_\_

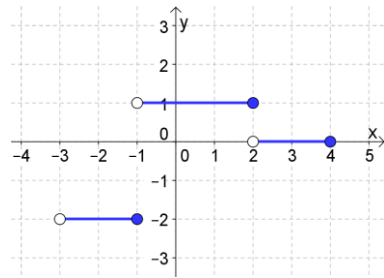
Range \_\_\_\_\_



b)

Domain \_\_\_\_\_

Range \_\_\_\_\_



c)

Domain \_\_\_\_\_

Range \_\_\_\_\_

Q: What can you catch, but not throw?

