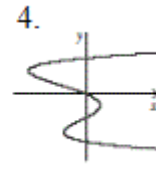
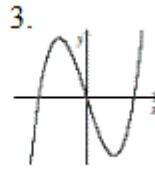
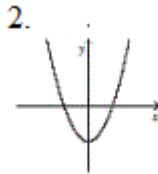
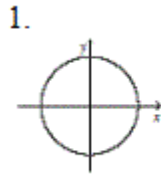


# PRINTABLE VERSION

## Quiz 11

### Question 1

Which of the following graph(s) represent a function?



- a)  2 and 3
- b)  2 and 4
- c)  2 only
- d)  1 and 4
- e)  All of these
- f)  None of the above

### Question 2

Which of the following represent a function?

I.  $9x + 2y = y - 6$

II.  $x^2 + y^2 = 9$

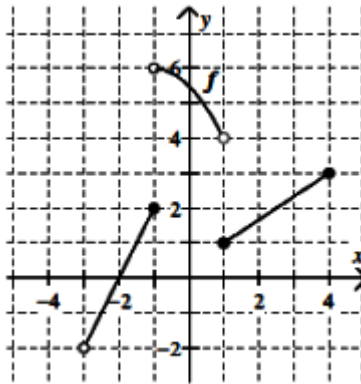
III.  $y^3 + x^2 = 2$

- a)  III only
- b)  I, II, and III
- c)  II and III only
- d)  I and III only
- e)  I and II only

f)  None of the above

### Question 3

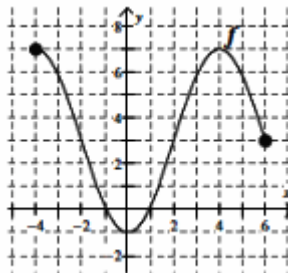
Given the graph of the function  $y = f(x)$ , evaluate  $f(1)$ .



- a)  4
- b)  1
- c)  undefined
- d)  0
- e)  5
- f)  None of the above

### Question 4

Given the graph of the function  $y = f(x)$ , find  $x$  such that  $f(x) = 3$ .



- a)  -2, 2
- b)  -2, 2, 6

- c)  6
- d)  -2
- e)  2
- f)  None of the above

**Question 5**

Given:

$$f(x) = \begin{cases} -6 & x < -2 \\ 1 & x = -2 \\ 9x - 1 & x > -2 \end{cases}$$

Which point below is on the graph of  $f(x)$ ?

- a)  (-1, -6)
- b)  (-1, -10)
- c)  (0, -6)
- d)  (-5, -46)
- e)  (-2, -6)
- f)  None of the above

**Question 6**

Given

$$f(x) = 2x^2 + 5x + 10$$

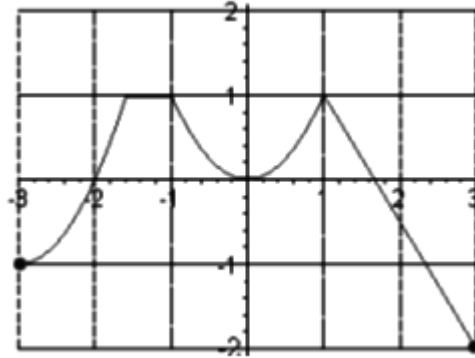
Which of the following points is on the graph of  $f(x)$ ?

- a)  (8, 177)
- b)  (2, 28)
- c)  (1, 13)
- d)  (5, 75)
- e)  (5, 86)

f)  None of the above

### Question 7

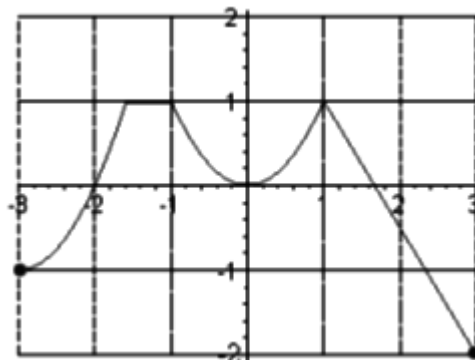
Given the graph of the function, find the domain:



- a)   $[-2, 2]$
- b)   $[-2, 1]$
- c)   $[-3, 1]$
- d)   $[-3, 3]$
- e)   $(-3, 3)$
- f)  None of the above

### Question 8

Given the graph of the function, find the range:

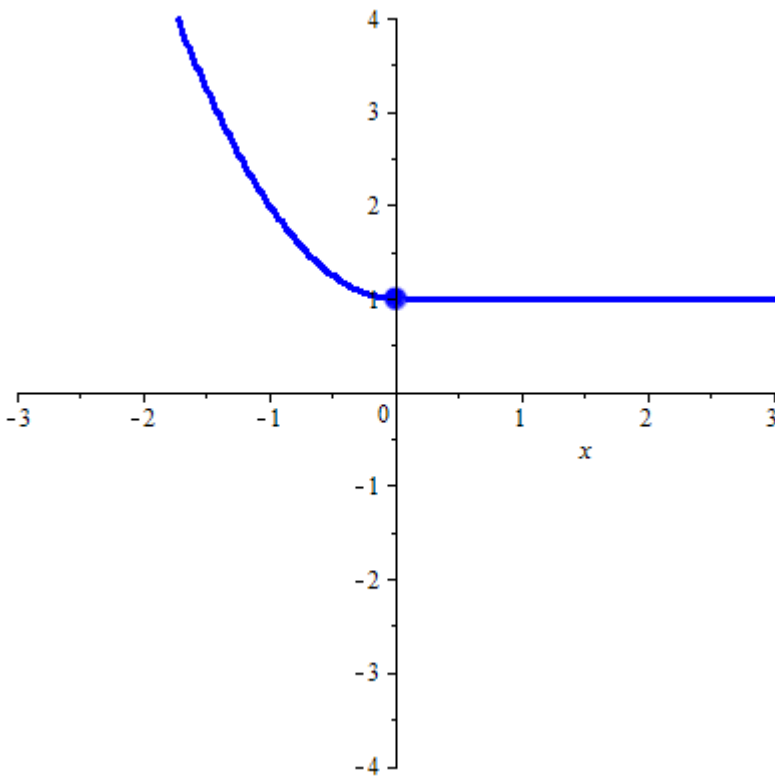


- a)   $[-2, 2]$
- b)   $[-3, 3]$

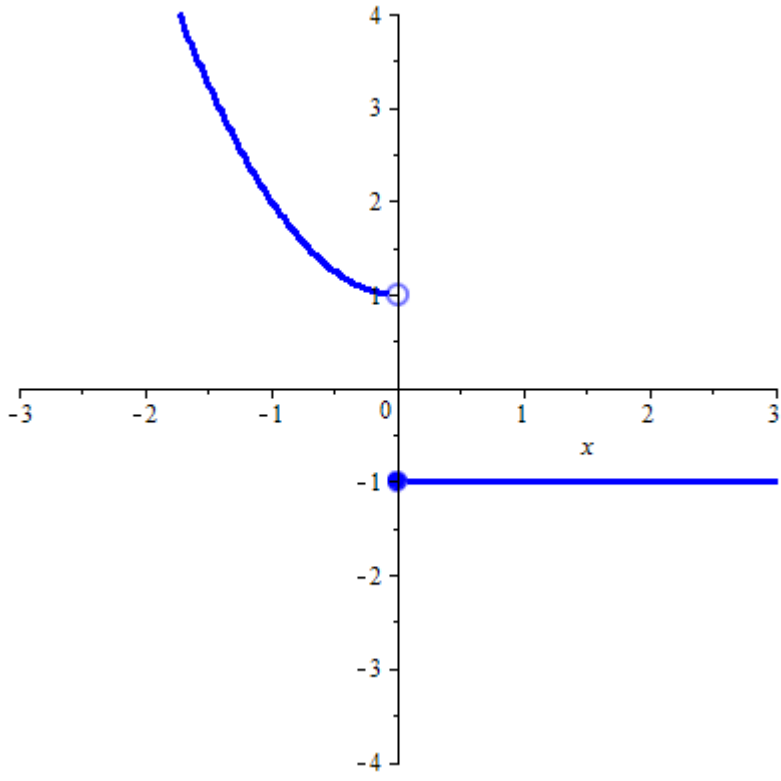
- c)   $[-3, 1]$
- d)   $[-2, 1]$
- e)   $(-3, 3)$
- f)  None of the above

**Question 9**

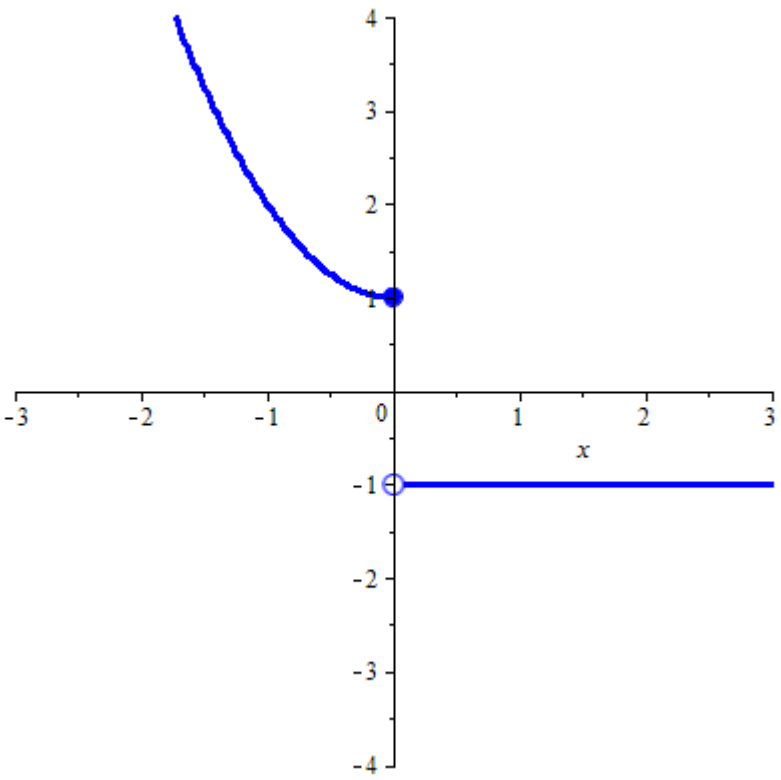
Which of the following is the graph of  $f(x) = \begin{cases} x^2 + 1 & x < 0 \\ -1 & x \geq 0 \end{cases}$  ?



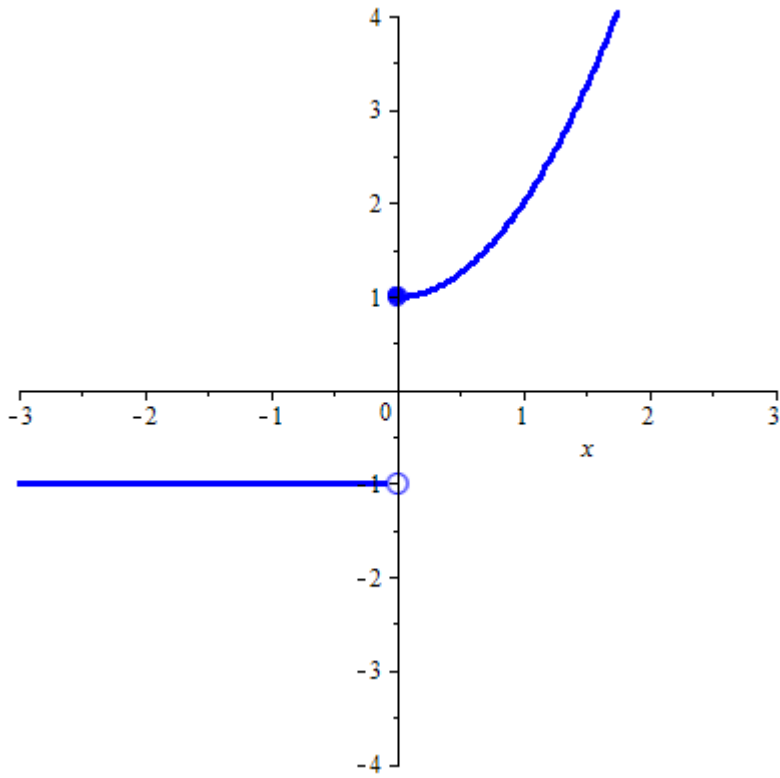
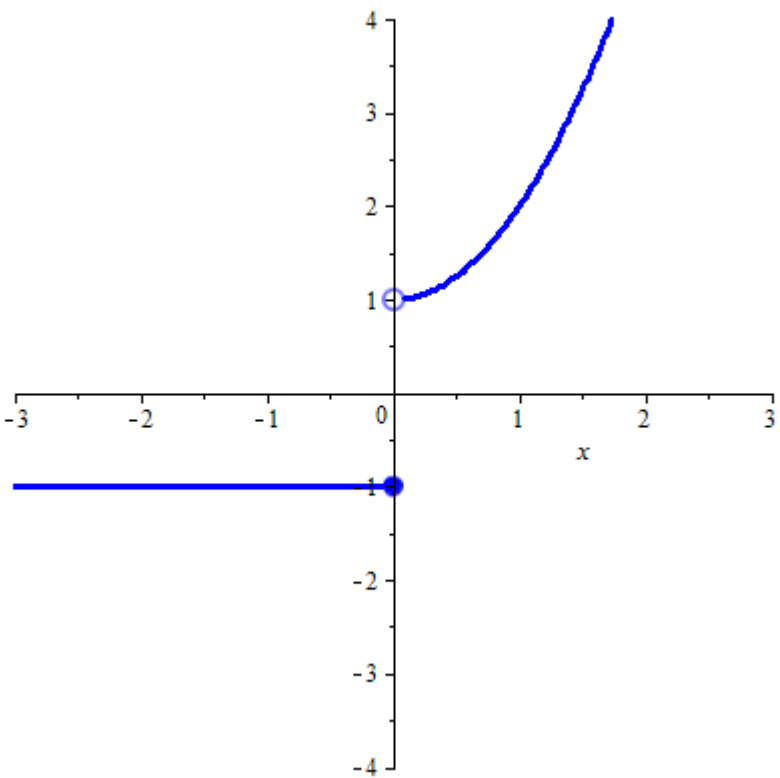
- a)



b)



c)

d) e) f)  None of the above**Question 10**

Which test do we use to determine whether a given graph represents a function?

- a)  There is no such test
- b)  Both Vertical and Horizontal Line Test
- c)  Vertical Line Test
- d)  Horizontal Line Test
- e)  None of the above