

# Functions

**Evaluate each function.**

1)  $f(n) = n^2 - 3$ ; Find  $f(10)$

2)  $w(n) = n^3 - 5n^2$ ; Find  $w(2)$

3)  $w(x) = 3x - 4$ ; Find  $w(-5)$

4)  $f(x) = -2x + 3$ ; Find  $f(5)$

5)  $g(n) = n^2 - 4$ ; Find  $g(0)$

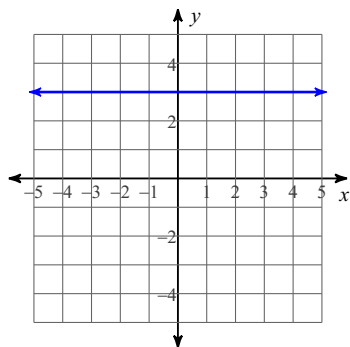
6)  $h(x) = -2x - 4$ ; Find  $h(-9)$

7)  $f(x) = 2x + 1$ ; Find  $f(-7)$

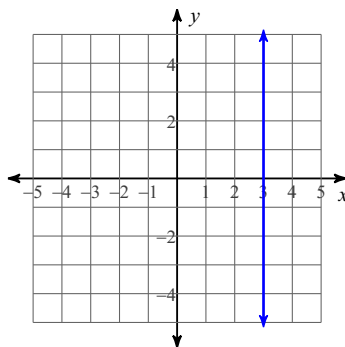
8)  $w(t) = 2t + 1$ ; Find  $w(3)$

**Use the Vertical Line Test to state if the following graphs represent functions.**

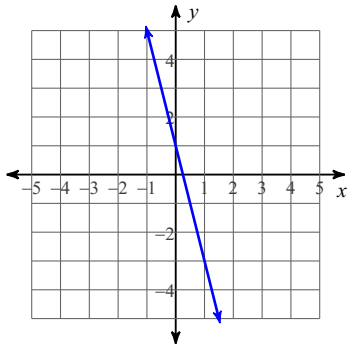
9)



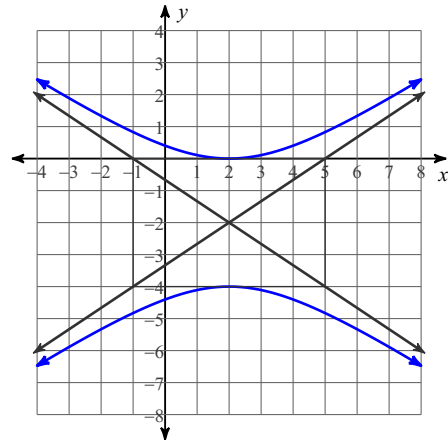
10)



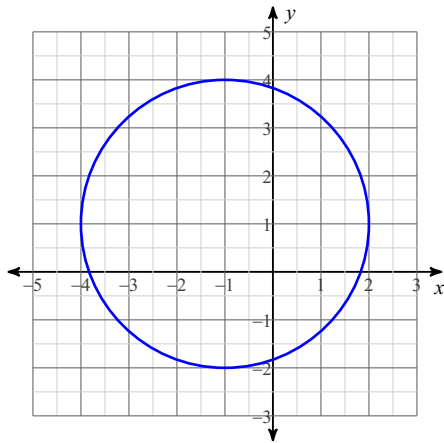
11)



12)



13)



14) State whether the following is a function.

$$\{(4,8);(0,6);(25,-34);(-3,7)\}$$

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$$\{(4,8);(0,6);(25,-34);(4,7)\}$$

16) Given the following relation, write the domain, range, and mapping.

$$\{(6,3);(2,4);(5,-3);(-6,90)\}$$

17) Given the following relation, write the domain, range, and mapping.

$$\{(-3,6);(24,10);(-2,43);(-2,4)\}$$

18) Given the following relation, write the domain, range, and mapping.

$$\{(-7,4);(2,10);(-12,3);(6,0)\}$$