

Give the domain and range of the relation.

1) $\{(-5, -5), (-2, -6), (12, 7), (12, -8)\}$

A) domain = $\{-5, 12, -2, 22\}$; range = $\{-5, 7, -6, -8\}$

B) domain = $\{-5, 12, -2\}$; range = $\{-5, 7, -6, -8\}$

C) domain = $\{-5, 12, -2, -12\}$; range = $\{-5, 7, -6, -8\}$

D) domain = $\{-5, 7, -6, -8\}$; range = $\{-5, 12, -2\}$

1) _____

Determine whether the relation is a function.

2) $\{(-6, -3), (-2, 3), (-1, -8), (-1, 8)\}$

A) Not a function

B) Function

2) _____

3) $\{(-4, 1), (-1, -9), (1, -3), (5, -6)\}$

A) Not a function

B) Function

3) _____

Determine whether the equation defines y as a function of x.

4) $y^2 = 3x$

A) y is a function of x

B) y is not a function of x

4) _____

5) $y = x^3$

A) y is a function of x

B) y is not a function of x

5) _____

Evaluate the function at the given value of the independent variable and simplify.

6) $g(x) = 2x + 4$; $g(x - 1)$

A) $2x + 4$

B) $\frac{1}{2}x + 4$

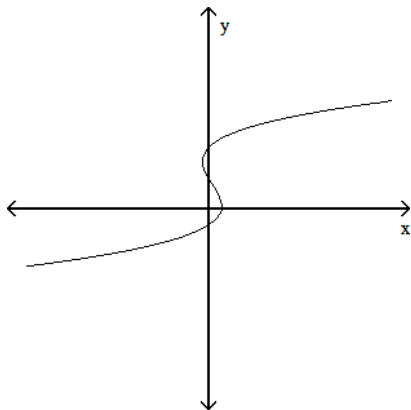
C) $2x + 2$

D) $2x + 1$

6) _____

Use the vertical line test to determine whether or not the graph is a graph in which y is a function of x.

7)

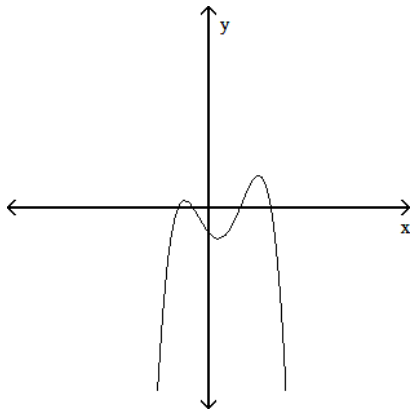


A) function

B) not a function

7) _____

8)



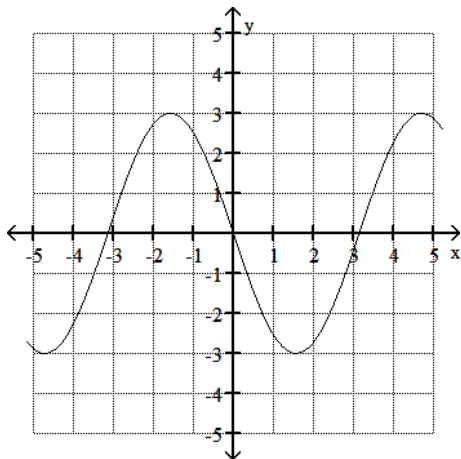
A) function

B) not a function

8) _____

Use the graph to find the indicated function value.

9) $y = f(x)$. Find $f(2)$



A) -0.7

B) 0.7

C) 2.7

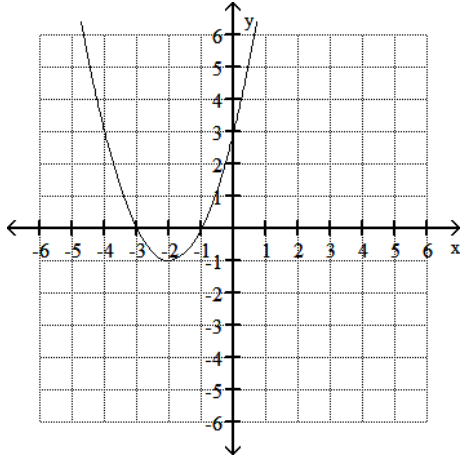
D) -2.7

9) _____

Use the graph to determine the function's domain and range.

10)

10) _____



A) domain: $(-\infty, \infty)$

range: $(-\infty, \infty)$

C) domain: $[-2, \infty)$

range: $[-1, \infty)$

B) domain: $(-\infty, \infty)$

range: $[-1, \infty)$

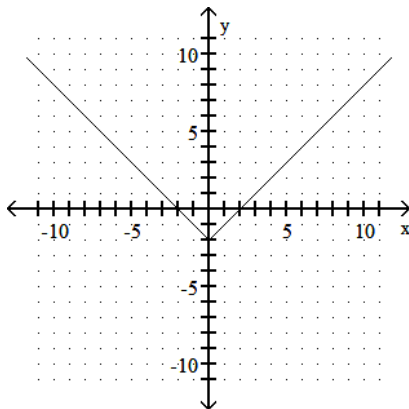
D) domain: $(-\infty, -2)$ or $(-2, \infty)$

range: $(-\infty, -1)$ or $(-1, \infty)$

Identify the intercepts.

11)

11) _____



A) $(0, -2)$

C) $(2, 0), (-2, 0), (0, 0)$

B) $(2, 0), (-2, 0), (0, -2)$

D) $(2, 0), (-2, 0)$

Answer Key

Testname: PRACTICE03

- 1) B
- 2) A
- 3) B
- 4) B
- 5) A
- 6) C
- 7) B
- 8) A
- 9) D
- 10) B
- 11) B