

# QUIZIZZ

## Homework 8.3 due Mon 4/26 (no attachments necessary)

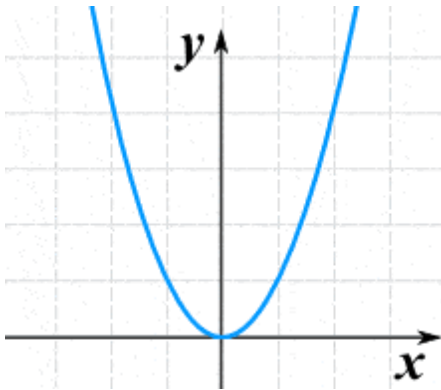
17 Questions

NAME : \_\_\_\_\_

CLASS : \_\_\_\_\_

DATE : \_\_\_\_\_

1.



What is the range for the function shown?

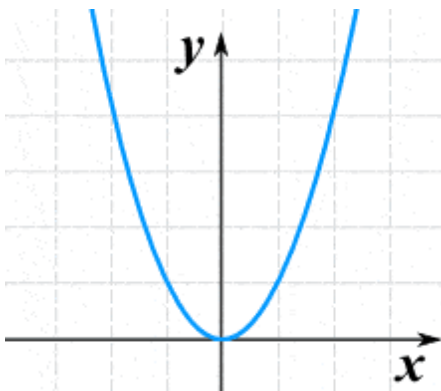
a)  $y \leq 0$

b)  $y \geq 0$

c)  $x \leq 0$

d)  $x \geq 0$

2.



What is the domain of decrease for the function shown?

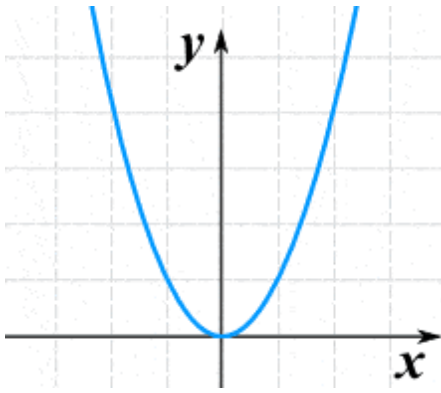
a)  $y \leq 0$

b)  $y \geq 0$

c)  $x < 0$

d)  $x > 0$

3.



What is the domain of increase for the function shown?

a)  $y \leq 0$

b)  $y \geq 0$

c)  $x < 0$

d)  $x > 0$

4. Which answer choice describes  $y = -3x^2 + 7x - 2$  accurately?

a) opens up with a maximum

b) opens up with a minimum

c) opens down with a maximum

d) opens down with a minimum

5. What are two other terms for **zeros**?

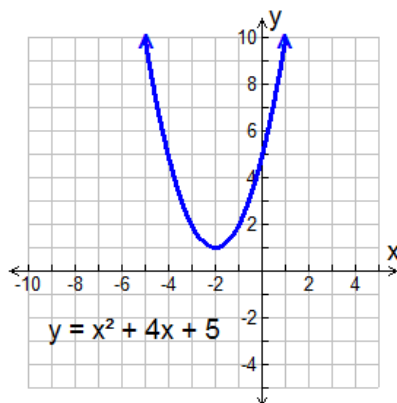
a) y-intercepts

b) roots

c) vertex

d) x-intercepts

6.



What is the y-intercept of this function?

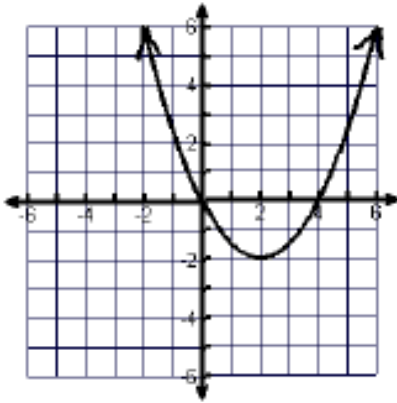
a) (0, 5)

b) (-2, 1)

c) (0, 0)

d) (5, 0)

7.



What are the x-intercepts?

a) (0, 0)

b) (4, 0)

c) (0, 4)

d) (2, -2)

8. What form is the equation in and which point is identifiable with this form? $y = 2x^2 - 8x + 7$

a) Standard

b) Vertex

c) Factored

d) (0, 7)

e) (7, 0)

9. Which form is demonstrated in this function and what point is identifiable with this form? $y = -3(x - 5)^2 + 7$  in?

a) Standard

b) Vertex

c) Factored

d) (0, 7)

e) (5, 7)

10. What form is this quadratic function in and what points are identifiable in this form? $f(x) = 2(x - 5)(x + 1)$

a) Factored

b) Vertex

c) (5, 0) and (-1, 0)

d) (10, 0) and (-2, 0)

e) Standard

11.

$$f(x) = -\frac{1}{4}(x - 1)^2 + 4$$

Identify the vertex and whether the graph opens up or down.

a) (-1, 4); opens up

b) (-1, 4); opens down

c) (1, 4); opens up

d) (1, 4); opens down

12. A parabola has a vertex at (-3,2). Where is the axis of symmetry?

a)  $y = -2$

b)  $x = 3$

c)  $x = -3$

d)  $y = 2$

13.  $y = 2x^2 + 8x - 5$ ; the axis of symmetry is found using  $x = -b/2a$ . What is the axis of symmetry?

a)  $x = 8$

b)  $x = 4$

c)  $x = -2$

d)  $x = -4$

14.  $y = 2x^2 + 8x - 5$ ; If  $x = -2$ , substitute into the equation to determine  $y$

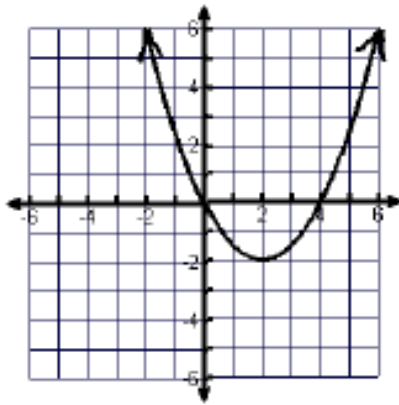
a) -31

b) -13

c) 11

d) 12

15.



What is the range of this function?

a)  $y \leq 2$

b)  $y \geq 2$

c)  $y \leq -2$

d)  $y \geq -2$

16. What is another name for a maximum or minimum point of a quadratic function?

a) Ultimate Point

b) Zero

c) Vertex

d) Y-intercept

17. Identify all correct statements for this function:  $f(x) = -3x - 8$

a) It is a linear function that is increasing

b) It is a linear function that is decreasing

c) It contains the point  $(-3, -8)$

d) It contains the point  $(0, -8)$