



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 The graph shown is what type of **function**?

**A** linear  
**B** nonlinear  
**C** exponential  
**D** zero function

2 The graph shown is what type of **function**?

**A** linear  
**B** nonlinear  
**C** exponential  
**D** zero function

3 The graph shown is what type of **function**?

**A** linear  
**B** nonlinear  
**C** exponential  
**D** zero

4 The equation,  $y = 2^x$ , is an example of an equation for a **parabola**.

True or false?

**A** true  
**B** false

$y = 2^x$

5

**PREVIEW**

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9

What are the **y-values** for the equation,  $y = x^2 + 3x - 1$  for the **x-values** of 3, 6, and 9?

**A** 17, 53, 107  
**B** -1, 17, 53  
**C** 18, 54, 108  
**D** 0, 18, 54

$y = x^2 + 3x - 1$

10

What are the **y-values** for the equation,  $y = 4^x$ , when the **x-values** are 0, 1, 2?

**A** 0, 4, 8  
**B** 1, 4, 8  
**C** 1, 4, 16  
**D** 0, 4, 16

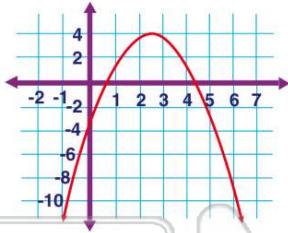
$y = 4^x$



## ANSWER KEY

The graph shown is what type of **function**?

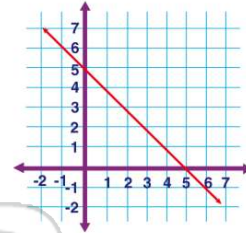
- A linear
- B nonlinear
- C exponential
- D zero function



(b)

The graph shown is what type of **function**?

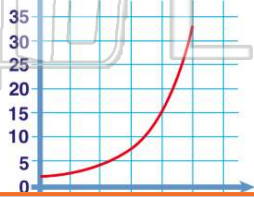
- A linear
- B nonlinear
- C exponential
- D zero function



(a)

The graph shown is what type of **function**?

- A linear
- B nonlinear
- C exponential
- D zero



(c)

The equation,  $y = 2^x$ , is an example of an equation for a **parabola**.

True or false?

- A true
- B false

$y = 2^x$

(b)



## PREVIEW

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- A  $y = -x^2 - 2$
- B  $y = -5x$
- C  $y = 3$
- D  $y = -x^2 + 5x$



- A  $y = x^2 + 2x + 20$
- B  $y = 20x + 2$
- C  $y = 20 + 2x$
- D  $y = 20^{2x}$



What are the **y-values** for the equation,  $y = x^2 + 3x - 1$  for the **x-values** of 3, 6, and 9?

- A 17, 53, 107
- B -1, 17, 53
- C 18, 54, 108
- D 0, 18, 54

$y = x^2 + 3x - 1$

(a)

What are the **y-values** for the equation,  $y = 4^x$ , when the **x-values** are 0, 1, 2?

- A 0, 4, 8
- B 1, 4, 8
- C 1, 4, 16
- D 0, 4, 16

$y = 4^x$

(c)