



Name _____ Class _____ Date _____

1 The graph shown is an example of an **exponential function**.

True or false?

A true
B false

2 Which is **not** an **exponential function**?

A $y = 3^x$
B $y = 2^x + 1$
C $y = x^2 + 5$
D $y = .5^x - 6$

3 What are the **y-values** for the **exponential function**, $y = (\frac{1}{3})^x$, when **x** is **0, 1, 2**?

A $0, \frac{1}{3}, \frac{1}{6}$, **C** 1, 3, 9

4 This graph **represents** _____.

A a linear function
B an exponential function
C a quadratic

5

PREVIEW

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7

B an exponential function
C a quadratic function
D a function rule

C $y = -3x^2$
D $y = 2^x + 6$

9 What are the **y-values** for the quadratic function, $y = x^2 + x + 4$, when the **x-values** are **-2, 0, 2**?

A 10, 4, 10
B 6, 4, 10
C -2, 4, 10
D -2, 0, 10

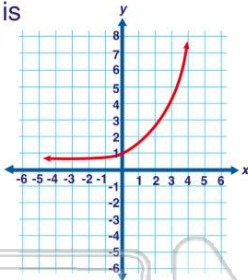
10 What are the **y-values** for the quadratic function, $y = x^2 - 6$, when the **x-values** are **-1, 0, 1**?

A -5, -6, -5
B -7, -6, -5
C 7, 6, 7
D -5, -6, -7



ANSWER KEY

The graph shown is an example of an **exponential function**.



True or false?

- A true
- B false

(a)

Which is **not** an **exponential function**?

- A $y = 3^x$
- B $y = 2^x + 1$
- C $y = x^2 + 5$
- D $y = .5^x - 6$

(c)

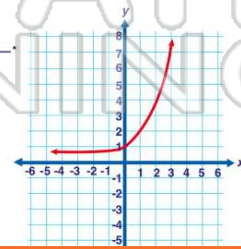
What are the **y-values** for the **exponential function**, $y = (\frac{1}{3})^x$, when **x** is **0, 1, 2**?

- A $0, \frac{1}{3}, \frac{1}{6}$
- B $1, \frac{1}{3}, \frac{1}{6}$
- C $1, 3, 9$
- D $1, \frac{1}{3}, \frac{1}{9}$

(d)

This graph **represents**

- A a linear function
- B an exponential function
- C a quadratic function



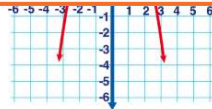
(b)



PREVIEW

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- C a quadratic function
- D a function rule



What are the **y-values** for the quadratic function, $y = x^2 + x + 4$, when the **x-values** are **-2, 0, 2**?

- A 10, 4, 10
- B 6, 4, 10
- C -2, 4, 10
- D -2, 0, 10

(b)

What are the **y-values** for the quadratic function, $y = x^2 - 6$, when the **x-values** are **-1, 0, 1**?

- A -5, -6, -5
- B -7, -6, -5
- C 7, 6, 7
- D -5, -6, -7

(a)