

Recognize quadratic relations from equations

1

Trigonometric

A $y = ax^2 + bx + c$

B $y = \log(x)$

C $y = ax^3 + bx^2 + cx + d$

D $y = \sin(x)$

2

Factored Form

A $y = 2(x - 1)^2 + 2$

B $y = 2(x + 0)(x - 3)$

C $y = 2x^2 + x + 3$

3

Factored Form

A $y = ax^2 + bx + c$

B $y = a(x - h)^2 + k$

C $y = a(x - R_1)(x - R_2)$

4

What are the values of a, b, and c in the quadratic formula, given this equation?

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

A
$$\begin{aligned} a &= -3 \\ b &= -1 \\ c &= -2 \end{aligned}$$

B
$$\begin{aligned} a &= -1 \\ b &= -2 \\ c &= -3 \end{aligned}$$

C
$$\begin{aligned} a &= -2 \\ b &= -1 \\ c &= -3 \end{aligned}$$

5

Which quadratic equation has these values of a, b, and c from the standard form?

$$a = -3$$

$$b = -4$$

$$c = -3$$

standard form:

$$y = ax^2 + bx + c$$

A $y = -4x^2 - 3x - 3$

B $y = -3x^2 - 3x - 4$

C $y = -3x^2 - 4x - 3$

6

Which type of graph would this formula create?

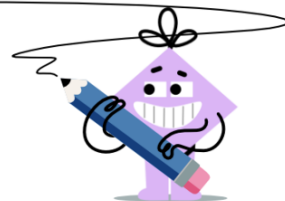
$$y = ax^3 + bx^2 + cx + d$$

A Logarithmic

B Trigonometric

C Cubic

D Reciprocal



Recognize quadratic relations from equations

7

What are the values of a , b , and c in the quadratic formula, given this equation and the standard form?

$$y = 3x^2 + 4x + 2$$

standard form:

$$y = ax^2 + bx + c$$

A

$$a = 2$$

$$b = 4$$

$$c = 3$$

B

$$a = 3$$

$$b = 4$$

$$c = 2$$

8

What form is this quadratic equation in?

$$y = a(x - h)^2 + k$$

A

Vertex Form

B

Factored Form

C

Standard Form

9

What form is this quadratic equation in?

$$y = 3(x + 1)^2 + 4$$

A

Vertex Form

B

Standard Form

C

Factored Form

10

Which type of graph would this formula create?

$$y = \log(x)$$

A

Logarithmic

B

Exponential

C

Linear

D

Trigonometric

11

What form is this quadratic equation in?

$$y = a(x - R_1)(x - R_2)$$

A

Standard Form

B

Vertex Form

C

Factored Form