

Recognize quadratic relations from graphs

1

Which type of graph would this formula create?

$$y = a^x$$

A Exponential

B Absolute Value

C Linear

D Logarithmic

2

What would the vertex of this function be?

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

A (3, -1)

B (-1, 3)

C (1, -1)

D (1, 3)

E (-1, -3)

3

Min: 1

A (2, 1)

B (-2, -1)

C (2, -1)

4

(1, -1), opening up

A $y = -1.5(x + 1)^2 + 1$

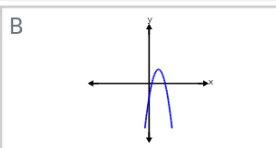
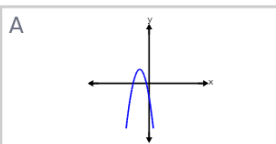
B $y = -1.5(x - 1)^2 - 1$

C $y = 1.5(x + 1)^2 - 1$

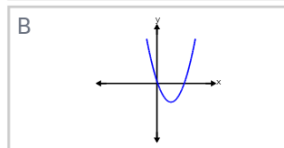
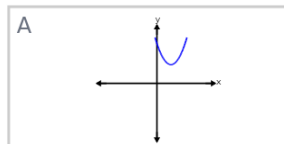
D $y = 1.5(x - 1)^2 - 1$

5

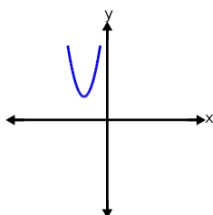
(-2, 3), opening down

**6**

Min: -4

**7**

What could the vertex of this function be?



A (3, -3)

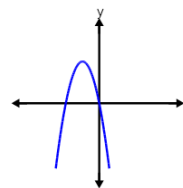
B (-3, -3)

C (3, 3)

D (-3, 3)

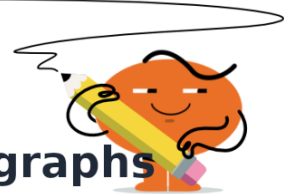
8

Does this quadratic function have one or more real roots?



A No

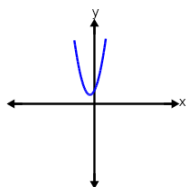
B Yes



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What type of roots would this quadratic function have?



A 2 complex roots

B 1 real root

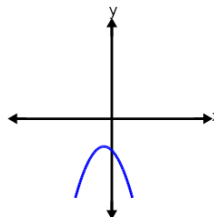
C 2 real roots

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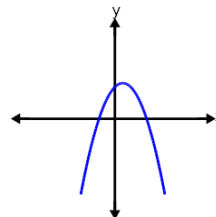
Which graph shows this quadratic equation?

$$y = -0.5x^2 - x - 4$$

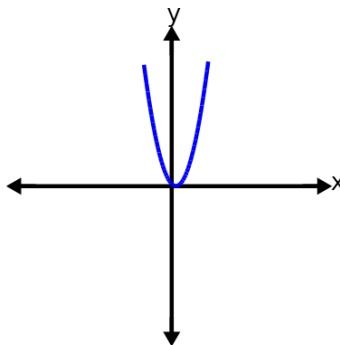
A



B

**11**

Which root(s) would be valid for this quadratic function?



A

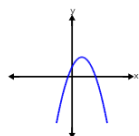
$$x = 1.8$$
$$x = 3.1$$

B

$$x = 0.33$$

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Which quadratic function could create this graph?



A $y = -0.5(x - 2)^2 - 4$

B $y = -0.5(x + 2)^2 + 4$

C $y = -0.5(x - 2)^2 + 4$

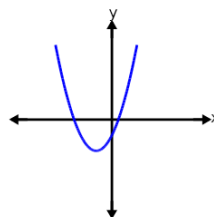
D $y = 0.5(x - 2)^2 + 4$

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Which graph shows this quadratic function?

$$y = 0.5(x + 2)^2 - 4$$

A



B

