

A

Answer

Intersects 2 times

How many **roots** does the following quadratic have?

$$y = x^2 + 12x + 36$$

B

Answer

$$b^2 - 4ac = 0$$

For what value(s) of a , does the following quadratic have 1 repeated root?

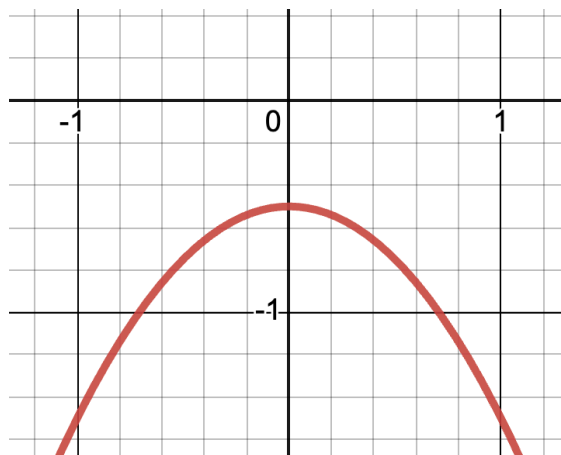
$$y = ax^2 + 2x + 4$$

C

Answer

$$c < \frac{9}{8}$$

State the nature of the
discriminant for the following:



D

Answer

$$b^2 - 4ac < 0$$

For what value(s) of b , does the following quadratic have 1 repeated root?

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

E

Answer

$$-4 < b < 4$$

For what value(s) of m does the following quadratic have 1 repeated real root?

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

F

Answer

No real roots

For what value(s) of a , does the following quadratic have 2 real roots?

$$y = ax^2 + x + 1$$

G

Answer

$$m = \pm 5$$

How many **roots** does the following quadratic have?

$$y = x^2 - 2x + 10$$

H

Answer

1 repeated root

For what value(s) of c , does the following quadratic have 2 real roots?

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

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Answer

$$b^2 - 4ac > 0$$

For what value(s) of c , does the following quadratic have 1 repeated root?

$$y = -3x^2 - 5x + c$$

J

Answer

$$a < \frac{1}{4}$$

For what value(s) of b , does the following quadratic have no real roots?

$$y = 4x^2 + bx + 1$$

K

Answer

$$b < -6$$

$$b > 6$$

How many **roots** does the following quadratic have?

$$y = x^2 + 8x + 4$$

L

Answer

$$m = \pm 2$$

For what value(s) of b , does the following quadratic have 2 real roots?

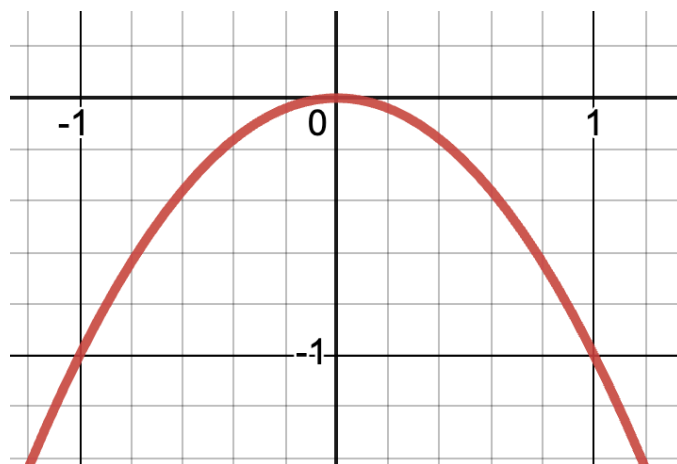
$$y = x^2 + bx + 9$$

M

Answer

$$b = \pm 4$$

State the nature of the
discriminant for the following:



N

Answer

$$c = -\frac{25}{12}$$

How many times does the line:

$$y = x + 5$$

intersect with the quadratic:

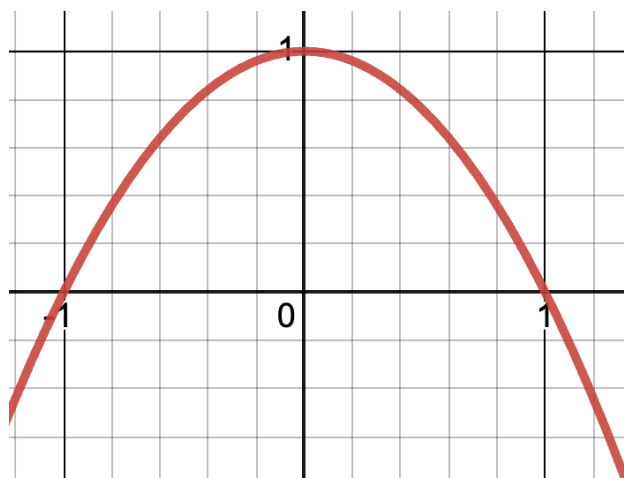
$$y = x^2 + 2x - 3$$

0

Answer

2 real roots

State the nature of the
discriminant for the following:



P

Answer

$$a = \frac{1}{4}$$

For what value(s) of m , does the following quadratic have 1 repeated root?

$$y = mx^2 + 10x + m$$