



Quadratic Formula - Equation and Quadratic Formula to Integer Roots

1

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

What roots (solutions) would this quadratic equation have (use the quadratic formula)?

quadratic formula:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

A	$x = -1$ $x = -2$	B	$x = -4$ $x = 0$
C	$x = -1$ $x = -4$	D	$x = 1$ $x = 0$

2

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

What roots (solutions) would this quadratic equation have (use the quadratic formula)?

quadratic formula:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

A	$x = -0$ $x = 1$	B	$x = 0$ $x = -6$
C	$x = -1$ $x = -4$	D	$x = -3$ $x = -1$

3

$$y = x^2 - 4$$

What roots (solutions) would this quadratic equation have (use the quadratic formula)?

quadratic formula:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

A	$x = 3$ $x = -1$	B	$x = 0$ $x = -1$
C	$x = 2$ $x = -2$	D	$x = 3$ $x = -2$

4

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

What roots (solutions) would this quadratic equation have (use the quadratic formula)?

quadratic formula:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

A	$x = 0$ $x = 0$	B	$x = 5$ $x = 3$
C	$x = 3$ $x = -2$	D	$x = 1$ $x = -2$

5

$$y = -5x^2 - 5x$$

What roots (solutions) would this quadratic equation have (use the quadratic formula)?

quadratic formula:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

A	$x = -2$ $x = 3$	B	$x = 5$ $x = 3$
C	$x = -1$ $x = -0$	D	$x = -1$ $x = -1$

6

$$y = -1x^2 - 3x + 4$$

What roots (solutions) would this quadratic equation have (use the quadratic formula)?

quadratic formula:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

A	$x = -4$ $x = -2$	B	$x = -3$ $x = 2$
C	$x = 2$ $x = 5$	D	$x = -4$ $x = 1$

7

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

What roots (solutions) would this quadratic equation have (use the quadratic formula)?

quadratic formula:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

A	$x = -2$ $x = -1$	B	$x = -3$ $x = -1$
C	$x = -5$ $x = -3$	D	$x = -6$ $x = 3$

8

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

What roots (solutions) would this quadratic equation have (use the quadratic formula)?

quadratic formula:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

A	$x = 5$ $x = -2$	B	$x = 3$ $x = -1$
C	$x = 2$ $x = -1$	D	$x = -2$ $x = -2$