



Quadratic Formula - Equation and Quadratic Formula to Integer Roots

1

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

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

quadratic formula:

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

A	$x = 4$ $x = 2$	B	$x = -3$ $x = -1$
C	$x = -2$ $x = 0$	D	$x = -4$ $x = -4$

2

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

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

quadratic formula:

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

A	$x = 4$ $x = -2$	B	$x = -1$ $x = 0$
C	$x = -4$ $x = -6$	D	$x = -3$ $x = 1$

3

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

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

quadratic formula:

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

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

4

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

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

quadratic formula:

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

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

5

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

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

quadratic formula:

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

A	$x = 3$ $x = 5$	B	$x = -6$ $x = 3$
C	$x = -1$ $x = 4$	D	$x = 2$ $x = -3$

6

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

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

quadratic formula:

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

A	$x = 5$ $x = 0$	B	$x = 0$ $x = -6$
C	$x = 1$ $x = 0$	D	$x = 0$ $x = 5$

7

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

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

quadratic formula:

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

A	$x = 2$ $x = 0$	B	$x = 2$ $x = 1$
C	$x = -3$ $x = 1$	D	$x = 2$ $x = -4$

8

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

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

quadratic formula:

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

A	$x = -6$ $x = 2$	B	$x = 4$ $x = -5$
C	$x = -2$ $x = -6$	D	$x = -1$ $x = 0$