



## Quadratic Formula - Equation and Quadratic Formula to Decimal Roots

1

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

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

quadratic formula:

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

A	$x = -4.5$ $x = -3.65$	B	$x = 2.65$ $x = -3.66$
C	$x = 0.69$ $x = -2.19$	D	$x = -2.4$ $x = -0.31$

2

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

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

quadratic formula:

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

A	$x = 1.43$ $x = 2.72$	B	$x = -0.73$ $x = 2.73$
C	$x = -1.45$ $x = -5.5$	D	$x = -5.13$ $x = -1.19$

3

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

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

quadratic formula:

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

A	$x = 5.35$ $x = 5.93$	B	$x = -1$ $x = -0.67$
C	$x = 3.19$ $x = 4.1$	D	$x = -0.64$ $x = -3.08$

4

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

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

quadratic formula:

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

A	$x = 1.1$ $x = 4.89$	B	$x = 4.48$ $x = 0.93$
C	$x = -1.32$ $x = 0.57$	D	$x = -3.63$ $x = 2.42$

5

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

$$y = x^2 - 5$$

quadratic formula:

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

A	$x = -2.68$ $x = 5.36$	B	$x = -0.03$ $x = -2.61$
C	$x = 2.24$ $x = -2.24$	D	$x = 4.59$ $x = -3.22$

6

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

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

quadratic formula:

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

A	$x = 0.82$ $x = -1.22$	B	$x = 4.4$ $x = -2.18$
C	$x = 3.41$ $x = 1.78$	D	$x = -4.83$ $x = 1.71$

7

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

$$y = -5x^2 - 5x - 1$$

quadratic formula:

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

A	$x = 2.93$ $x = -5.28$	B	$x = -0.72$ $x = -0.28$
C	$x = -3.13$ $x = 4.11$	D	$x = -4.49$ $x = 0.65$

8

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

$$y = -4x^2 - 5x$$

quadratic formula:

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

A	$x = 2.16$ $x = 5.94$	B	$x = -1.34$ $x = -5.99$
C	$x = -1.25$ $x = -0$	D	$x = 4.09$ $x = 5.71$