



Quadratic Formula - Equation and Quadratic Formula to Decimal Roots

1

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	$x = -1$ $x = -0.67$	B	$x = 4.34$ $x = 3.62$
C	$x = 0.55$ $x = 3.22$	D	$x = 0.16$ $x = -4.27$

2

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

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

quadratic formula:

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

A	$x = -4.95$ $x = 4.86$	B	$x = 1.62$ $x = -0.62$
C	$x = -5.38$ $x = 3.62$	D	$x = 0.72$ $x = 1.74$

3

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

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

quadratic formula:

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

A	$x = 1.15$ $x = -0.35$	B	$x = 5.25$ $x = 5.3$
C	$x = -2$ $x = -1.07$	D	$x = 4.27$ $x = -2.02$

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

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

quadratic formula:

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

A	$x = 0.78$ $x = -1.28$	B	$x = 3.57$ $x = -3.99$
C	$x = -0.17$ $x = -3.44$	D	$x = 1.54$ $x = -0.31$

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

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

quadratic formula:

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

A	$x = 3.71$ $x = -4.57$	B	$x = 0.87$ $x = -1.54$
C	$x = 1.38$ $x = 5.18$	D	$x = 1.99$ $x = 2.79$

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

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

quadratic formula:

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

A	$x = 1.75$ $x = 4.47$	B	$x = -4.24$ $x = -4.62$
C	$x = 5.18$ $x = -3.2$	D	$x = 0.29$ $x = -0.69$

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

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

quadratic formula:

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

A	$x = -0.49$ $x = 2.44$	B	$x = 0.82$ $x = -0.82$
C	$x = 1.78$ $x = -3.51$	D	$x = 4.25$ $x = -3.38$

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

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

quadratic formula:

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

A	$x = 0.27$ $x = 3.73$	B	$x = 4.46$ $x = 4.01$
C	$x = -3.34$ $x = -2.93$	D	$x = -2.44$ $x = -3.55$