



Quadratic Formula - Equation and Quadratic Formula to Decimal Roots

1

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

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

quadratic formula:

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

A	$x = 0.2$ $x = -2.84$	B	$x = -3.41$ $x = -0.59$
C	$x = -3.01$ $x = -4.35$	D	$x = -0.77$ $x = 2.13$

2

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

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

quadratic formula:

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

A	$x = 0.25$ $x = 0$	B	$x = -4.22$ $x = 0.93$
C	$x = 1.87$ $x = 2.13$	D	$x = -3.49$ $x = 1$

3

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

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

quadratic formula:

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

A	$x = 0.45$ $x = -1.92$	B	$x = 1$ $x = -4$
C	$x = 5.61$ $x = 2.31$	D	$x = 5.78$ $x = -1.96$

4

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

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

quadratic formula:

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

A	$x = 0.79$ $x = 3.8$	B	$x = 5.17$ $x = -4.14$
C	$x = -1.72$ $x = -3.2$	D	$x = 0$ $x = 3$

5

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

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

quadratic formula:

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

A	$x = -0.94$ $x = -2.45$	B	$x = -5.39$ $x = -4.13$
C	$x = 1.28$ $x = -0.78$	D	$x = -4.87$ $x = 3.85$

6

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

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

quadratic formula:

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

A	$x = 3.18$ $x = -2.38$	B	$x = 3.06$ $x = 4.05$
C	$x = -0.77$ $x = 1.71$	D	$x = -1$ $x = -0.67$

7

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

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

quadratic formula:

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

A	$x = 2.7$ $x = 0.9$	B	$x = -0.67$ $x = 0$
C	$x = 3.86$ $x = 4.78$	D	$x = 1.84$ $x = 3.67$

8

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

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

quadratic formula:

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

A	$x = -1.62$ $x = -3.22$	B	$x = 4.02$ $x = 0.84$
C	$x = 1.15$ $x = -0.65$	D	$x = 5.09$ $x = -3.64$