



Quadratic Formula - Equation and Quadratic Formula to Integer Roots

1

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

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

quadratic formula:

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

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

2

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

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

quadratic formula:

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

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

3

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

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

quadratic formula:

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

A	$x = -3$ $x = 1$	B	$x = 5$ $x = 4$
C	$x = -6$ $x = 0$	D	$x = 5$ $x = -6$

4

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

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

quadratic formula:

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

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

5

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

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

quadratic formula:

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

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

6

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

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

quadratic formula:

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

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

7

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

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

quadratic formula:

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

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

8

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

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

quadratic formula:

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

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