



Quadratic Formula - Equation and Quadratic Formula to Integer Roots

1

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

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

quadratic formula:

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

A	$x = 1$ $x = -1$	B	$x = -3$ $x = -2$
---	---------------------	---	----------------------

C	$x = 3$ $x = -1$	D	$x = -1$ $x = -6$
---	---------------------	---	----------------------

2

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

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

quadratic formula:

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

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

C	$x = 2$ $x = 0$	D	$x = -6$ $x = 0$
---	--------------------	---	---------------------

3

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

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

quadratic formula:

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

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

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

4

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

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

quadratic formula:

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

A	$x = 0$ $x = -1$	B	$x = -1$ $x = 0$
---	---------------------	---	---------------------

C	$x = -6$ $x = 2$	D	$x = 1$ $x = -1$
---	---------------------	---	---------------------

5

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

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

quadratic formula:

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

A	$x = 1$ $x = 2$	B	$x = 1$ $x = -5$
---	--------------------	---	---------------------

C	$x = -5$ $x = 2$	D	$x = 5$ $x = -1$
---	---------------------	---	---------------------

6

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

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

quadratic formula:

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

A	$x = 5$ $x = -2$	B	$x = 3$ $x = 4$
---	---------------------	---	--------------------

C	$x = -2$ $x = -4$	D	$x = -0$ $x = 1$
---	----------------------	---	---------------------

7

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

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

quadratic formula:

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

A	$x = -1$ $x = 1$	B	$x = 0$ $x = 4$
---	---------------------	---	--------------------

C	$x = -5$ $x = -1$		
---	----------------------	--	--

8

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

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

quadratic formula:

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

A	$x = 3$ $x = -6$	B	$x = 1$ $x = 0$
---	---------------------	---	--------------------

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