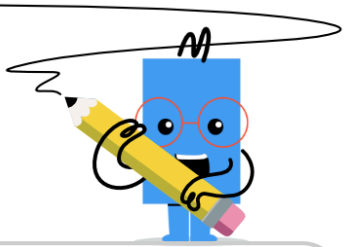
Name

Quadratic Formula - Equation and Quadratic Formula to Complex Roots



1

$y = -4x^2 - 4$

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

quadratic formula: $x = \dfrac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

A $x = \dfrac{-0 \pm i\sqrt{64}}{-8}$

B $x = \dfrac{2.8 \pm i\sqrt{7.8}}{6.8}$

2

$y = 4x + 5x^2 + 3$

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

quadratic formula: $x = \dfrac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

A $x = \dfrac{7.8 \pm i\sqrt{2.4}}{1.6}$

B $x = \dfrac{-4 \pm i\sqrt{44}}{10}$

3

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

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

quadratic formula: $x = \dfrac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

A $x = \dfrac{9.3 \pm i\sqrt{7.4}}{3.7}$

B $x = \dfrac{-1 \pm i\sqrt{15}}{4}$

4

$y = -5x^2 + 4x - 3$

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

quadratic formula: $x = \dfrac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

A $x = \dfrac{-4 \pm i\sqrt{44}}{-10}$

B $x = \dfrac{1.4 \pm i\sqrt{9.3}}{4.4}$

5

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

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

quadratic formula: $x = \dfrac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

A $x = \dfrac{2.9 \pm i\sqrt{2.5}}{6.2}$

B $x = \dfrac{3 \pm i\sqrt{23}}{8}$

6

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

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

quadratic formula: $x = \dfrac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

A $x = \dfrac{2.6 \pm i\sqrt{9.7}}{2.9}$

B $x = \dfrac{-3 \pm i\sqrt{23}}{4}$

7

$y = +x^2 + 4$

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

quadratic formula: $x = \dfrac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

A $x = \dfrac{2 \pm i\sqrt{1.4}}{6.6}$

B $x = \dfrac{-0 \pm i\sqrt{16}}{2}$

8

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

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

quadratic formula: $x = \dfrac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

A $x = \dfrac{8.4 \pm i\sqrt{3.9}}{5.4}$

B $x = \dfrac{1 \pm i\sqrt{7}}{4}$