Name

Quadratic Formula - Equation and Quadratic Formula to Decimal Roots

1

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

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

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

A $x = -2.26$, $x = 0.59$	B $x = 2.95$, $x = 0.35$
C $x = -4.04$, $x = 0.3$	D $x = -4.09$, $x = 5.38$

2

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

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

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

A $x = 1.37$, $x = -3.75$	B $x = -2.22$, $x = 0.22$
C $x = 5.12$, $x = 2.9$	D $x = 0.56$, $x = 5.98$

3

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

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

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

A $x = 1.87$, $x = 4.23$	B $x = 0.75$, $x = -1$
C $x = -2.15$, $x = -0.93$	D $x = -1.41$, $x = -3.59$

4

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

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

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

A $x = -2.28$, $x = -0.22$	B $x = -4.43$, $x = 4.25$
C $x = 3.82$, $x = 0.42$	D $x = -4.23$, $x = 4.59$

5

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

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

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

A $x = -0.86$, $x = 3.12$	B $x = 4.3$, $x = 1.19$
C $x = 1.4$, $x = 3.47$	D $x = -0.54$, $x = 1.87$

6

$y = -1x^2 - 3 - 5x$

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

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

A $x = -0.61$, $x = -5.64$	B $x = 5.65$, $x = -0.85$
C $x = -4.3$, $x = -0.7$	D $x = 2.83$, $x = -2.01$

7

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

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

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

A $x = -1.33$, $x = -0$	B $x = 1.51$, $x = 3.65$
C $x = -5.44$, $x = -4.78$	D $x = 2.95$, $x = 0.66$

8

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

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

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

A $x = -1.18$, $x = 0.43$	B $x = 1.04$, $x = -3.93$
C $x = -0.77$, $x = -5.86$	D $x = 5.08$, $x = -4.44$