Quadratic Formula - Equation to Complex Roots

Name _____

1 What roots (solutions) would this quadratic equation have?

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

A $x = \dfrac{-1 \pm i\sqrt{63}}{-8}$ B $x = \dfrac{5.7 \pm i\sqrt{4.4}}{6.4}$

2 What roots (solutions) would this quadratic equation have?

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

A $x = \dfrac{1.2 \pm i\sqrt{4.4}}{4.3}$

B $x = \dfrac{-3 \pm i\sqrt{7}}{2}$

3 What roots (solutions) would this quadratic equation have?

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

A $x = \dfrac{5 \pm i\sqrt{6.2}}{7.8}$ B $x = \dfrac{3 \pm i\sqrt{3}}{-6}$

4 What roots (solutions) would this quadratic equation have?

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

A $x = \dfrac{-4 \pm i\sqrt{32}}{8}$ B $x = \dfrac{1.7 \pm i\sqrt{5.2}}{1.9}$

5 What roots (solutions) would this quadratic equation have?

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

A $x = \dfrac{6.5 \pm i\sqrt{6.9}}{2}$

B $x = \dfrac{-0 \pm i\sqrt{8}}{-2}$

6 What roots (solutions) would this quadratic equation have?

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

A $x = \dfrac{3.5 \pm i\sqrt{8.9}}{7.5}$ B $x = \dfrac{-2 \pm i\sqrt{44}}{-8}$

7 What roots (solutions) would this quadratic equation have?

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

A $x = \dfrac{-1 \pm i\sqrt{23}}{4}$

B $x = \dfrac{6.2 \pm i\sqrt{4.5}}{1.7}$

8 What roots (solutions) would this quadratic equation have?

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

A $x = \dfrac{-2 \pm i\sqrt{4}}{-2}$ B $x = \dfrac{5.1 \pm i\sqrt{1.9}}{2.7}$