Objective 4 - Solving Quadratic Equations with Quadratic Formula

Solving quadratic equations using the Quadratic Formula.

Link to section in online textbook.

First, watch this video to learn how to solve quadratic equations using the Quadratic Formula. Remember: this method will **always** work, but may not be the easiest method.

Now practice solving quadratic equations with the quadratic formula.

Question   1 *Solve the quadratic below.*

$$-2\,x^2 - 4\,x + 4 = 0$$

Smaller solution: $x = \boxed{-2.732}$

Larger solution: $x = \boxed{0.732}$

Question   2 *Solve the quadratic below.*

$$-7\,x^2 + 3\,x + 9 = 0$$

Smaller solution: $x = \boxed{-0.94}$

Larger solution: $x = \boxed{1.368}$

Question   3 *Solve the quadratic below.*

$$9\,x^2 + 5\,x - 6 = 0$$

Smaller solution: $x = \boxed{-1.14}$

Larger solution: $x = \boxed{0.585}$

Learning outcomes: Understand and solve quadratic equations.
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