Unit 2: Quadratic Functions Lesson 2.3



Game On!

- (2)
- 1. The solutions to $nx^2 + px + q = 0$ are 4 and $-\frac{2}{5}$. What information does this tell you about the graph of $f(x) = nx^2 + px + q$?

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2. Determine the roots of the equation $3x^2 - x - 4 = 0$ by factoring. Verify the roots and be sure to show all work.

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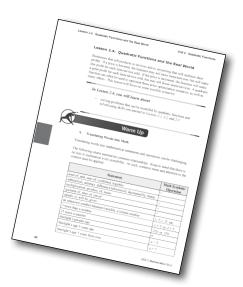
- (3)
- 3. Determine the exact roots of $0 = x^2 7x + 7$ using the quadratic formula.

4. Use technology to solve the following equation. List the steps you used to find the solution(s).

$$5x^2 + 2x + 15 = 3x^2 + 13x + 27$$

Several methods of determining the roots of a quadratic equation were discussed in *Lesson 2.3*. Select one of the methods to determine the roots of the equation $5x^2 + 2x + 15 = 4x^2 + 13x - 15$. Verify the roots.

You have completed *Lesson 2.3 Game On!* Please return to the *Module* and continue your training with *Lesson 2.4*.



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