

Additional Practice *(continued)***Investigation 4****Function Junction**

Solve the following equations using the quadratic formula. Round decimals to the hundredths place.

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

1. $3x^2 - 9x - 12 = 0$

2. $x^2 - 2x - 5 = 0$

3. $x^2 - 10x = 25$

4. $2x^2 = 3x + 9$

5. $4x^2 + x = 4$

6. $6x^2 + 5 = 17x$

7. The solutions to #'s 1, 4, and 6 are rational, and the solutions to #'s 2, 3, and 5 are irrational. What is the difference between the equations?