

LESSON

Technology Lab Recording Sheet pp. 628–629**9-5 Explore Roots, Zeros, and x -Intercepts****Try This****Activity 1**

Solve each equation by using a table.

1. $x^2 - 4x - 5 = 0$ _____

2. $x^2 - x - 6 = 0$ _____

3. $2x^2 + x - 1 = 0$ _____

4. $5x^2 - 6x - 8 = 0$ _____

- 5.
- Critical Thinking**
- How would you find the zero of a function that showed a sign change in the
- y
- values between the
- x
- values 1.2 and 1.3?

- 6.
- Make a Conjecture**
- If you scrolled up and down the list and found only positive values, what might you conclude?

Activity 2

Solve each equation by using a table and a graph.

7. $2x^2 - x - 3 = 0$ _____

8. $5x^2 + 13x + 6 = 0$ _____

9. $10x^2 - 3x - 4 = 0$ _____

10. $x^2 - 2x - 0.96 = 0$ _____

- 11.
- Critical Thinking**
- Suppose that when you graphed a quadratic function, you could see only one side of the graph and one zero. What methods would you use to try to find the other zero?
