NAME

Module 13 Solving Quadratic Equations of One Variable

Lesson 2 Solving Quadratic Equations by Evaluating Square Roots

guided notes

Lesson Objectives

- Solve quadratic equations of the form $ax^2 = k$ by evaluating square roots.
- Solve quadratic equations of the form $(x + a)^2 = k$ by evaluating square roots.

A solution to an equation is also called a **root**.

A quadratic equation can have **0, 1, or 2** real roots.

1 Solve: $3x^2 - 10 = 65$

{5, –5}

2 Solve: $2(x + 2)^2 + 25 = 25$

{–2}

3 Solve: $(x - 5)^2 = -3$

∅