

NAME _____

Module 13 Solving Quadratic Equations
of One Variable
Lesson 1 Defining Quadratic Equations
of One Variable

**guided
notes**

Lesson Objectives

- Review standard form of a linear equation.
- Identify equations as quadratic, linear, or neither.
- Write quadratic equations of one variable in standard form.
- Identify the values of a , b , and c .

A quadratic equation of one variable is an equation that can be written in the form $ax^2 + bx + c = 0$ _____, where $a \neq 0$.

When a quadratic equation is written this way, we say it is in **standard** _____ form.

A quadratic equation is a polynomial equation of degree **two** _____.

- 1 Is the equation $8^2f + 2f = -9$ a quadratic equation, a linear equation, or neither? **Linear** _____
- 2 Determine whether the equation $z^2 = 6$ is quadratic, linear, or neither. **Quadratic** _____
- 3 Determine whether the equation $x^2 - 4x = x^2 - 2x + 1$ is a quadratic equation, a linear equation, or neither. **Linear** _____
- 4 Is the equation $d^2(d + 4) = 0$ quadratic, linear, or neither? **Neither** _____

