Section 7.6 Solving Quadratic Equations by Factoring

A **quadratic equation** is an equation that can be written in the form

where , , and are real numbers and .

The form is called the **standard form** of a quadratic equation.

# Objective 1: Solving Quadratic Equations by Factoring

Some quadratic equations can be solved by making use of factoring and the **zero factor property**.

**Zero Factor Property:** If and are real numbers and if , then or or both.

In other words, if the product of two numbers is , then at least one of the numbers must be .

Solve the equation.

|  |  |
| --- | --- |
| a. | b. |
| c. | d. |
| e. | f. |
| g. | h. |