Lesson 26

Foundations of College Algebra

# Recognize Perfect Square Trinomials

## Perfect Square Trinomials Pattern

## Examples

Determine whether the following trinomials are perfect square trinomials.

## Your Turn

# Factor Perfect Square Trinomials

## Examples

Factor each perfect square trinomial completely.

## Your Turn

# Factor the Difference of Two Squares

## Difference of Squares Pattern

## Examples

Factor each binomial completely.

## You Try

# Solve Quadratic Equations by Factoring

Watch the following video. <https://youtu.be/4ZYxlmel1aM>  


## The Zero Product Property

If , then either , , or both.

## Examples

Solve the equations.

## You Try

## Definition

The standard form of a quadratic equation is . Here, , , and are constants.

## Procedure

To solve a quadratic equation by factoring:

## Write the quadratic equation in standard form, .

## Factor the quadratic expression.

## Use the Zero Product Property.

## Solve the linear equations.

1. Check.

## Examples

Solve the equations.

## You Try