**1.6 Other Types of Equations and Applications**

***Be sure to check all proposed solutions in the original equation.***

**CLASSROOM EXAMPLE 1 Solving Rational Equations That Lead to Linear Equations**

Solve each equation.

(a)  (b) 

**CLASSROOM EXAMPLE 2 Solving Rational Equations That Lead to Quadratic Equations**

Solve each equation.

(a)  (b) 

**Equations with Radicals**

**CLASSROOM EXAMPLE 4 Solving an Equation Containing a Radical (Square Root)**

Solve 

**CLASSROOM EXAMPLE 5 Solving an Equation Containing Two Radicals**

Solve 

**Equations with Rational Exponents**

**CLASSROOM EXAMPLE 7 Solving Equations with Rational Exponents**

Solve each equation.

(a)  (b) 

**Equations Quadratic in Form**

**CLASSROOM EXAMPLE 8 Solving Equations Quadratic in Form**

Solve each equation.

**(a)  (b) **