

# Quadratic Equation Factoring Method



1. Write the equation in the general form

$$ax^2 + bx + c = 0 \quad (\text{You can skip this step if it is already factored and } = 0)$$

2. Factor the non-zero side

3. Apply the zero product principle

4. Solve each linear (1st degree) equation

5. Write the solution set.

Solve the equation  
p. 172 #11 a)

$$2x^2 - 16x = 0$$

Solve the equation  
p. 172 #11 b)

$$x^2 - 16 = 0$$

Solve the equation  
p. 172 #11 c)

$$x^2 - 8x + 16 = 0$$

Solve the equation  
p. 172 #11 d)

$$x^2 - 3x + 2 = 0$$

Solve the equation  
p. 172 #11 e)

$$x^2 + 5x - 36 = 0$$

Solve the equation  
p. 172 #11 f)

$$x^2 + 13x + 36 = 0$$

Solve the equation  
p. 172 #11 g)

$$2x^2 - 3x = 2$$



Solve the equation  
p. 172 #11 h)

$$9x^2 + 1 = 6x$$

Solve the equation  
p. 172 #11 i)

$$2x^2 = x + 15$$

Solve the equation  
p. 172 #11 j)

$$8x^2 + 14x = 15$$

Solve the equation  
p. 172 #11 k)

$$10x(x + 2) = 10 - x$$