



Algebra II
Solving Quadratic Equations Using Factoring Notes

Today I will...	I'll know I've got it when...	Essential Question...

Example 1: Solve $t^2 - 4t = 0$ by factoring.

Step 1:

Step 2:

Step 3:

Step 4:

Example 2: Solve $x^2 - 4 = 0$ by factoring.

Example 3: Solve $x^2 + 9x + 20 = 0$ by factoring.

Example 4: Solve $x^2 + 3x - 18 = 0$ by factoring.

Example 5: Solve $8 - 10x = 3x^2$.

Example 6: Solve $12x^2 - 4x = 5$.

Example 7: Solve $15 = 10x^2 + 25x$.

Example 8: Solve $20x^2 + 7x = 6$.

Example 9: Solve $2x^2 - 17x + 45 = 3x - 5$ by factoring.

Example 10: You have made a rectangular stained glass window that is 2 feet by 4 feet. You have 7 square feet of clear glass to create a border of uniform width around the window. What should the width of the border be?

Picture:

Equation:

Width of boarder: _____

When is solving a quadratic equation by factoring appropriate?