

## w↑: Factor the expressions

1.)  $16x^2 - 80x$

2.)  $35x^3 + 10x$

3.)  $24x + 144x^2$

4.)  $27x^4y^7z^3 - 63x^2y^8z^4$



# Factoring Trinomials

Section 10.5

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# Factoring Trinomials

- Trinomial is of the form:  $ax^2 + bx + c$

## Steps to Follow

1. Set the equation equal to zero
2. Multiply the **c-term** by the **a-term**
3. Find factors of **ac** that add to get the **b-term**
4. Fill in the parenthesis using the correct signs

# Examples

1.)  $x^2 + 8x + 15$

2.)  $x^2 + 5x + 6$

## Examples (cont.)

3.)  $x^2 + x - 6$

4.)  $x^2 - 3x - 18$

## Examples (cont.)

5.)  $x^2 + x - 20$

6.)  $x^2 - 4x - 32$