

## 10.3 Factoring Trinomials of form $ax^2+bx+c$

How to Factor Trinomial of form  $ax^2+bx+c$

- ① Find factors of  $ac$  whose sum is  $b$ .
- ② Rewrite the middle term as a sum of terms w/ these factors of  $ac$  as their coefficients.
- ③ Factor the four-term polynomial by grouping the terms in pairs.
  - Ⓐ Factor common monomial from each pair.
  - Ⓑ Factor common binomial from each new term.
- ④ ✓ by multiplying factors

$$\begin{array}{r} 3x^2 + 13x - 10 \\ \underline{-30} \quad \text{Sum } 13 \\ 15 \quad -2 \end{array}$$

$$3x^2 + 15x - 2x - 10$$

$$\begin{aligned} & (3x^2 + 15x) + (-2x - 10) \\ & 3x(x+5) + -2(x+5) \\ & \boxed{(3x-2)(x+5)} \end{aligned}$$

$$(3x-2)(x+5)$$

$$\begin{aligned} & 3x^2 + 15x - 2x - 10 \\ & 3x^2 + 13x - 10 \quad \checkmark \end{aligned}$$

$$\textcircled{1} ac = -30 \quad b = 13$$

$$\textcircled{2} \text{ Find factors of } -30 \text{ whose sum is } 13$$

$$\textcircled{3} \text{ Rewrite middle term as sum}$$

$$\textcircled{4} \text{ Group so you can factor GCF from the groupings}$$

$$\textcircled{5} \checkmark \text{ by multiplying}$$

Ex#1 Factor  $3x^2 + 7x + 2$

$$\begin{array}{r} 6 \\ \underline{6} \quad 1 \\ 6 \quad 1 \end{array} \quad \text{Sum } 6+1=7$$

$$\begin{aligned} & 3x^2 + 6x + 1x + 2 \\ & 3x(x+2) + 1(x+2) \\ & \boxed{(3x+1)(x+2)} \end{aligned}$$

$$\begin{aligned} & (3x+1)(x+2) \\ & 3x^2 + 6x + 1x + 2 \\ & 3x^2 + 7x + 2 \quad \checkmark \end{aligned}$$

$$\textcircled{1} ac = 6 \quad b = 7$$

$$\textcircled{2} \text{ Find factors of } 6 \text{ whose sum is } 7$$

$$\textcircled{3} \text{ Rewrite middle term as sum}$$

$$\textcircled{4} \text{ Group so you can factor GCF from groupings}$$

$$\textcircled{5} \checkmark \text{ by multiplying}$$

# Algebra 1 Lesson 10 3 Answers

**Robert Taggart**



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