

# Today's Learning Goal(s):

Date: \_\_\_\_\_  
(Every lesson)

By the end of the class, I will be able to:

- a) factor simple trinomials of the form  $ax^2 + bx + c$ ,  $a \neq 1$

MCF 3MI

## 2.4 Factoring Quadratic Expressions (Day 1)

*Recall:* Factoring expresses a polynomial as a **product** of polynomials.

$$(2x+3)(x+2) \overset{\text{Expanding}}{=} 2x^2 + 7x + 6$$

*Factoring*

Whenever you are faced with a factoring question, **ALWAYS try to Common Factor FIRST!**

Ex.1 Factor the following trinomials. (**ALWAYS try to Common Factor FIRST!**)

a)  $2x^2 + 7x + 3$

b)  $3x^2 - 2x - 5$

c)  $16x^2 + 20x - 6$

d)  $6x^2 - 7xy - 3y^2$

e)  $9x^2 - 15x + 6$

f)  $6y^3 + 15y^2 - 36y$

Ex. 2 For each expression, name an integer  $k$  such that the quadratic trinomial can be factored.

a)  $kx^2 + 4x + 1$

b)  $4x^2 + kx - 10$

Ex. 3 Factor these tougher questions.

a)  $6x^2 + 11xy + 3y^2$

b)  $8x^2 - 14xy + 3y^2$

Practice: p. 110 #4, 5, 7bc, 9, 10, 13bd

*The Unit Summative is Friday...Work ahead!!*