NAME

Module 12 Simplifying Algebraic Expressions

by Factoring Polynomials

Lesson 4 Factoring $x^2 + bx + c$



Lesson Objective

• Factor trinomials of the form $x^2 + bx + c$.

To factor a trinomial, think of FOIL in _____

For the trinomial, the constants in the binomial factors of the trinomial

 $x^2 + 10x + 24$ must have a product of _____ and

a sum of ______.

The factors of $x^2 + bx + c$ are (x + r)(x + s) where ____ = c

and $\underline{\hspace{1cm}} = b.$

Factor.

$$y^2 + 10y + 9 =$$

$$t^2 + 2t + 1 =$$

$$r^2 - 9r + 20 =$$

$$k^2 + 8k - 20 =$$