## NAME

Module 12 Simplifying Algebraic Expressions by Factoring Polynomials
Lesson 4 Factoring $x^{2}+b x+c$

## DATE

## Lesson Objective

- Factor trinomials of the form $x^{2}+b x+c$.

To factor a trinomial, think of FOIL in $\qquad$ _.

For the trinomial, the constants in the binomial factors of the trinomial
$x^{2}+10 x+24$ must have a product of $\qquad$ and
a sum of $\qquad$ _.

The factors of $x^{2}+b x+c$ are $(x+\mathrm{r})(x+s)$ where $\qquad$ $=c$
and $\qquad$ $=b$.

Factor.
(1) $y^{2}+10 y+9=$
(2) $t^{2}+2 t+1=$
$\qquad$
(3) $r^{2}-9 r+20=$
(4) $k^{2}+8 k-20=$

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