

Learning Goal(s):

MPM 2DI 5.5 Factor Quadratic Expressions of the Form  $ax^2 + bx + c$  (Day 1) Date: \_\_\_\_\_

Warm-up: Expand and Simplify

- a)  $(2x+3)(3x+5)$       b)  $(x+3)(6x+5)$       c)  $(3x-5)(2x+3)$       d)  $(2x-5y)(x-3y)$

Ex.1 Factor fully, if possible.      *Method 1*

- a)  $6x^2 + 19x + 15$       b)  $6x^2 - x - 15$

Ex.1 Factor fully, if possible.      *Method 2: The Australian Method*

- a)  $6x^2 + 19x + 15$       b)  $6x^2 - x - 15$

Ex.2 Factor fully, if possible.

- a)  $5x^2 - 23x + 12$       b)  $10x^2 + 39x + 14$

- c)  $6x^2 + 13xy - 15x^2y^2$       d)  $10x^2 - 33x - 7$