

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) $10x^2 - 33x - 7$