

Name:

Section 5.2b –Proficiency Check –Factoring Basic Quadratics

Factor the Quadratics

$x^2 - 5x + 4$ $(x-1)(x-4)$ $a \cdot b = 4$ $a + b = -5$	$x^2 + x - 72$ $(x+9)(x-8)$ $a \cdot b = -72$ $a + b = 1$
$2x^2 + 14x + 24$ $2(x^2 + 7x + 12)$ $2(x+4)(x+3)$ $a \cdot b = 12$ $a + b = 7$	$-x^2 + 5x - 6$ $-1(x^2 - 5x + 6)$ $-1(x-2)(x-3)$ $a \cdot b = 6$ $a + b = -5$
$x^2 + 14x - 120$ $(x+20)(x-6)$ $a \cdot b = -120$ $a + b = 14$	$x^2 - 11x - 12$ $(x-12)(x+1)$ $a \cdot b = -12$ $a + b = -11$
$x^2 - 16$ Diff of Squares $(x+4)(x-4)$	$9x^2 - 4y^2$ Diff of Squares $(3x-2y)(3x+2y)$
$x^2 + 8x + 16$ $(x+4)(x+4)$ $(x+4)^2$ Perfect Square Trinomial	$x^2 - 12x + 36$ $(x-6)(x-6)$ $(x-6)^2$ Perfect Square Trinomial

