

Name: key Date: _____Solving Quadratics: Factoring ($a > 1$)**Factor the following:**

1) $3x^2 - 2x - 5$

$(3x-5)(x+1)$

2) $3x^2 - 8x + 4$

$(3x-2)(x-2)$

3) $2x^2 + 11x + 5$

$(2x+1)(x+5)$

4) $7n^2 + 53n + 28$

$(7n+4)(n+7)$

5) $5x^2 + 8x - 4$

$(5x-2)(x+2)$

6) $5x^2 + 18x - 8$

$(5x-2)(x+4)$

7) $3x^2 + 5x - 2$

$(3x-1)(x+2)$

8) $2x^2 + 13x + 15$

$(2x+3)(x+5)$

9) $15n^2 - 27n - 6$ *GCF*

$3(5x+1)(x-2)$

10) $16x^2 + 60x - 100$ *GCF*

$4(4x-5)(x+5)$

11) $6x^2 + 7x - 49$

$(3x-7)(2x+7)$

12) $15p^2 - 31p + 10$ *Bonus*

$(5p-2)(3p-5)$