

Name: _____

Date: _____

Factoring Trinomials 8 – $a > 1, c = 1$ Answers**Section I. Factoring trinomials**

1a. $x^2 + 9x + 14$

$(x + 7)(x + 2)$

1b. $14x^2 + 9x + 1$

$(7x + 1)(2x + 1)$

2a. $x^2 - 2x - 8$

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

2b. $8x^2 - 2x - 1$

$(4x + 1)(2x - 1)$

3a. $x^2 + 13x - 30$

$(x + 15)(x - 2)$

3b. $30x^2 + 13x - 1$

$(15x - 1)(2x + 1)$

4a. $x^2 - 10x + 21$

$(x - 7)(x - 3)$

4b. $21x^2 - 10x + 1$

$(7x - 1)(3x - 1)$

5. $35x^2 + 12x + 1$

$(7x + 1)(5x + 1)$

6. $8x^2 + 9x + 1$

$(8x + 1)(x + 1)$

7. $32x^2 - 12x + 1$

$(8x - 1)(4x - 1)$

8. $5x^2 - 6x + 1$

$(5x - 1)(x - 1)$

9. $24x^2 + 2x - 1$

$(6x - 1)(4x + 1)$

10. $27x^2 + 6x - 1$

$(9x - 1)(3x + 1)$

11. $40x^2 - 18x - 1$

$(20x + 1)(2x - 1)$

12. $56x^2 - x - 1$

$(7x - 1)(8x + 1)$