

Chapter 8B – Factoring Review

Name _____

In each set of four factored trinomials, place the correct *signs* to give the middle term.

1. a) $2x^2 + 7x - 15 = (2x - 3)(x + 5)$

2. a) $x^2 + 5x + 6 = (x - 2)(x - 3)$

b) $2x^2 - 7x - 15 = (2x - 3)(x - 5)$

b) $x^2 - x - 6 = (x - 2)(x - 3)$

c) $2x^2 - x - 15 = (2x - 5)(x - 3)$

c) $x^2 + x - 6 = (x - 2)(x - 3)$

d) $2x^2 - 13x + 15 = (2x - 3)(x - 5)$

d) $x^2 - 5x + 6 = (x - 2)(x - 3)$

3. a) $3x^2 - 5x - 2 = (3x - 1)(x - 2)$

4. a) $x^2 + 7x + 6 = (x - 6)(x - 1)$

b) $3x^2 - 7x + 2 = (3x - 1)(x - 2)$

b) $x^2 - 7x + 6 = (x - 6)(x - 1)$

c) $3x^2 + 7x + 2 = (3x - 1)(x - 2)$

c) $x^2 + 5x - 6 = (x - 6)(x - 1)$

d) $3x^2 + 5x - 2 = (3x - 1)(x - 2)$

d) $x^2 - 5x - 6 = (x - 6)(x - 1)$

Factor each trinomial. Show each trial including the OI check. Box/circle final answer.

5. $2x^2 - 7x + 5$

6. $5x^2 - 13x + 6$

7. $5x^2 - 7x - 6$

8. $4y^2 + 8y + 3$

9. $3m^2 + 5m - 28$

10. $2x^2 + 13x + 15$

11. $12y^2 + 7y + 1$

12. $5a^2 - 42a - 27$

13. $8p^2 - 10p + 3$

14. $2v^2 - 3v - 20$

15. $12p^2 - 32p + 5$

16. $w^2 - 10w + 9$

17. $9n^2 + 6n + 1$

18. $9x^2 - 4$

19. $x^2 - 36$

20. $4p^2 - 11p + 6$

21. $6x^2 + 7x - 10$

22. $4y^2 - 17y + 15$

23. $15x^2 - 28x - 32$