Lesson 7.6 Factoring Trinomials (a ≠ 1)

Name: _____ Date: _____

AC method: multiply a·c, find the pair, split the middle term, group. GCF first. Last five are challenge problems!

1. Factor: $8x^2 + 18x - 5$

show your work

2. Factor: $6x^2 + 5x - 25$

show your work

3. Factor: $12x^2 + 11x - 15$

show your work

4. Factor: $15x^2 - 23x + 4$

show your work

5. Factor: $10x^2 + 11x - 6$

show your work

6. Factor: $10x^2 + 9x - 9$

show your work

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7. Factor: $20x^2 + 13x - 15$

show your work

8. Factor: $3x^2 + 14x + 8$

show your work

9. Factor: $6x^2 - 17x + 7$

show your work

10. Factor: $10x^2 + 27x + 18$

show your work

11. Factor: $15x^2 - 28x + 12$

show your work

12. Factor: $6x^2 - 5x - 6$

show your work

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13. Factor: $3x^2 - 23x + 14$

show your work

14. Factor: $4x^2 + 27x + 18$

show your work

15. Factor: $10x^2 + 31x + 15$

show your work

16. Factor: $8x^2 - 6x - 9$

show your work

17. Factor: $6x^2 + 19x + 10$

show your work

18. Factor: $12x^2 + 37x + 28$

show your work

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19. Factor: $4x^2 + x - 5$

show your work

20. Factor: $12x^2 + 5x - 3$

show your work

21. Factor completely: $6x^2 + 10x + 4$

show your work ★ CHALLENGE

22. Factor: $4x^2 - 4x - 15$

show your work ★ CHALLENGE

23. Factor: $9x^2 + 12x + 4$

show your work ★ CHALLENGE

24. Factor completely: $-2x^2 - 7x - 3$

show your work ★ CHALLENGE

25. Factor $2x^2 + 5x - 3$, then find the zeros of $y = 2x^2 + 5x - 3$.

show your work ★ CHALLENGE

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