Factoring Quadratic Expressions (G)

Name: _____

Factor each expression.

1. $2x^2 - 3x - 2$

2. $4x^2 + 17x + 4$

3. $2x^2 - 9x + 10$

4. $2x^2 - 25x + 72$

5. $4x^2 - 20x + 9$

6. $3x^2 + 23x + 14$

7. $4x^2 - 25x - 21$

8. $2x^2 - 7x + 6$

9. $-3x^2 + 23x - 14$

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

11. $-3x^2 + 25x - 28$

12. $-2x^2 - 17x + 9$

13. $-3x^2 - 25x - 42$

14. $-2x^2 - 9x + 81$

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

16. $-3x^2 - 16x - 21$

17. $3x^2 - 19x + 20$

18. $-2x^2 - x + 28$

19. $-3x^2 + 20x + 63$

20. $-4x^2 - 28x - 45$

Factoring Quadratic Expressions (G) Answers

Name: _____

Date: _____

Factor each expression.

1. $2x^2 - 3x - 2$

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

2. $4x^2 + 17x + 4$

    $(x + 4)(4x + 1)$

3. $2x^2 - 9x + 10$

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

4. $2x^2 - 25x + 72$

    $(2x - 9)(x - 8)$

5. $4x^2 - 20x + 9$

    $(2x - 9)(2x - 1)$

6. $3x^2 + 23x + 14$

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

7. $4x^2 - 25x - 21$

    $(4x + 3)(x - 7)$

8. $2x^2 - 7x + 6$

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

9. $-3x^2 + 23x - 14$

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

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

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

11. $-3x^2 + 25x - 28$

    $-(3x - 4)(x - 7)$

12. $-2x^2 - 17x + 9$

    $-(x + 9)(2x - 1)$

13. $-3x^2 - 25x - 42$

    $-(3x + 7)(x + 6)$

14. $-2x^2 - 9x + 81$

    $-(x + 9)(2x - 9)$

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

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

16. $-3x^2 - 16x - 21$

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

17. $3x^2 - 19x + 20$

    $(3x - 4)(x - 5)$

18. $-2x^2 - x + 28$

    $-(2x - 7)(x + 4)$

19. $-3x^2 + 20x + 63$

    $-(3x + 7)(x - 9)$

20. $-4x^2 - 28x - 45$

    $-(2x + 9)(2x + 5)$

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