Factoring Quadratic Expressions (D)

Name:

Date:

Factor each expression.

1. $-20x^2 - 152x + 252$

11. $-12x^2 + 100x + 72$

2. $4x^2 - 18x - 162$

12. $-12x^2 + 57x + 15$

3. $6x^2 - 9x + 3$

13. $-16x^2 - 64x + 36$

4. $10x^2 - 35x + 15$

14. $8x^2 + 30x + 18$

5. $15x^2 + 147x + 108$

15. $-20x^2 - 104x + 252$

6. $8x^2 - 40x + 50$

16. $-20x^2 - 225x - 405$

7. $10x^2 - 25x - 60$

17. $12x^2 + 12x - 45$

8. $-12x^2 - 63x - 81$

18. $-20x^2 + 44x + 48$

9. $-16x^2 + 32x - 12$

19. $20x^2 + 45x - 45$

10. $10x^2 - 115x + 280$

20. $8x^2 - 28x - 60$

Factoring Quadratic Expressions (D) Answers

Name: _____

Date: _____

Factor each expression.

1. $-20x^2 - 152x + 252$

   $-4(x + 9)(5x - 7)$

2. $4x^2 - 18x - 162$

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

3. $6x^2 - 9x + 3$

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

4. $10x^2 - 35x + 15$

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

5. $15x^2 + 147x + 108$

   $3(x + 9)(5x + 4)$

6. $8x^2 - 40x + 50$

   $2(2x - 5)(2x - 5) = 2(2x - 5)^2$

7. $10x^2 - 25x - 60$

   $5(2x + 3)(x - 4)$

8. $-12x^2 - 63x - 81$

   $-3(x + 3)(4x + 9)$

9. $-16x^2 + 32x - 12$

   $-4(2x - 3)(2x - 1)$

10. $10x^2 - 115x + 280$

    $5(2x - 7)(x - 8)$

11. $-12x^2 + 100x + 72$

    $-4(x - 9)(3x + 2)$

12. $-12x^2 + 57x + 15$

    $-3(x - 5)(4x + 1)$

13. $-16x^2 - 64x + 36$

    $-4(2x - 1)(2x + 9)$

14. $8x^2 + 30x + 18$

    $2(4x + 3)(x + 3)$

15. $-20x^2 - 104x + 252$

    $-4(5x - 9)(x + 7)$

16. $-20x^2 - 225x - 405$

    $-5(x + 9)(4x + 9)$

17. $12x^2 + 12x - 45$

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

18. $-20x^2 + 44x + 48$

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

19. $20x^2 + 45x - 45$

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

20. $8x^2 - 28x - 60$

    $4(x - 5)(2x + 3)$

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