Factoring Quadratic Expressions (F)

Name:
<u>   </u>

Factor each expression.

1. $-10x^2 + 45x + 90$

2. $-15x^2 - 20x + 35$

3. $12x^2 - 96x + 189$

4. $-20x^2 - 105x - 135$

5. $6x^2 - 3x - 30$

6. $15x^2 + 145x + 200$

7. $6x^2 - 45x + 75$

8. $20x^2 + 112x + 128$

9. $-16x^2 + 324$

10. $15x^2 - 10x - 40$

11. $-25x^2 - 115x + 210$

12. $-8x^2 + 24x + 14$

13. $-12x^2 + 39x + 105$

14. $-20x^2 + 5x + 25$

15. $-12x^2 + 24x + 135$

16. $-6x^2 + 3x + 84$

17. $12x^2 - 81x - 243$

18. $-25x^2 + 165x + 70$

19. $6x^2 - 64x + 128$

20. $20x^2 - 25x - 30$

Factoring Quadratic Expressions (F) Answers

Name: _____

Date: _____

Factor each expression.

1. $-10x^2 + 45x + 90$

   $-5(2x + 3)(x - 6)$

2. $-15x^2 - 20x + 35$

   $-5(3x + 7)(x - 1)$

3. $12x^2 - 96x + 189$

   $3(2x - 9)(2x - 7)$

4. $-20x^2 - 105x - 135$

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

5. $6x^2 - 3x - 30$

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

6. $15x^2 + 145x + 200$

   $5(3x + 5)(x + 8)$

7. $6x^2 - 45x + 75$

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

8. $20x^2 + 112x + 128$

   $4(5x + 8)(x + 4)$

9. $-16x^2 + 324$

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

10. $15x^2 - 10x - 40$

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

11. $-25x^2 - 115x + 210$

    $-5(5x - 7)(x + 6)$

12. $-8x^2 + 24x + 14$

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

13. $-12x^2 + 39x + 105$

    $-3(4x + 7)(x - 5)$

14. $-20x^2 + 5x + 25$

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

15. $-12x^2 + 24x + 135$

    $-3(2x + 5)(2x - 9)$

16. $-6x^2 + 3x + 84$

    $-3(2x + 7)(x - 4)$

17. $12x^2 - 81x - 243$

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

18. $-25x^2 + 165x + 70$

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

19. $6x^2 - 64x + 128$

    $2(x - 8)(3x - 8)$

20. $20x^2 - 25x - 30$

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

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