

Factoring Quadratic Expressions (D)

Name: _____

Date: _____

Factor each expression.

1. $20x^2 + 184x + 36$

11. $36x^2 - 66x - 12$

2. $-10x^2 + 74x + 48$

12. $27x^2 - 252x + 441$

3. $-2x^2 + 16x + 18$

13. $12x^2 + 14x - 6$

4. $-56x^2 - 175x - 21$

14. $-14x^2 - 52x + 90$

5. $16x^2 - 52x - 90$

15. $42x^2 + 72x - 24$

6. $-18x^2 + 30x + 72$

16. $36x^2 - 66x - 432$

7. $-32x^2 + 128x + 72$

17. $4x^2 + 18x - 10$

8. $-6x^2 - 40x + 64$

18. $24x^2 - 76x + 12$

9. $63x^2 + 371x + 280$

19. $24x^2 + 69x + 42$

10. $-30x^2 - 324x - 486$

20. $54x^2 - 288x + 384$

Factoring Quadratic Expressions (D) Answers

Name: _____

Date: _____

Factor each expression.

1. $20x^2 + 184x + 36$

$4(5x + 1)(x + 9)$

2. $-10x^2 + 74x + 48$

$-2(x - 8)(5x + 3)$

3. $-2x^2 + 16x + 18$

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

4. $-56x^2 - 175x - 21$

$-7(x + 3)(8x + 1)$

5. $16x^2 - 52x - 90$

$2(2x - 9)(4x + 5)$

6. $-18x^2 + 30x + 72$

$-6(3x + 4)(x - 3)$

7. $-32x^2 + 128x + 72$

$-8(2x - 9)(2x + 1)$

8. $-6x^2 - 40x + 64$

$-2(3x - 4)(x + 8)$

9. $63x^2 + 371x + 280$

$7(x + 5)(9x + 8)$

10. $-30x^2 - 324x - 486$

$-6(5x + 9)(x + 9)$

11. $36x^2 - 66x - 12$

$6(6x + 1)(x - 2)$

12. $27x^2 - 252x + 441$

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

13. $12x^2 + 14x - 6$

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

14. $-14x^2 - 52x + 90$

$-2(7x - 9)(x + 5)$

15. $42x^2 + 72x - 24$

$6(x + 2)(7x - 2)$

16. $36x^2 - 66x - 432$

$6(2x - 9)(3x + 8)$

17. $4x^2 + 18x - 10$

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

18. $24x^2 - 76x + 12$

$4(6x - 1)(x - 3)$

19. $24x^2 + 69x + 42$

$3(x + 2)(8x + 7)$

20. $54x^2 - 288x + 384$

$6(3x - 8)(3x - 8) = 6(3x - 8)^2$