

Factoring Quadratic Expressions (F)

Name: _____

Date: _____

Factor each expression.

1. $36x^2 - 111x + 84$

11. $-120x^2 - 205x + 175$

2. $180x^2 + 240x + 35$

12. $-96x^2 - 84x - 9$

3. $45x^2 - 15x - 100$

13. $-108x^2 + 276x - 160$

4. $-48x^2 + 44x - 6$

14. $12x^2 + 87x - 72$

5. $-45x^2 + 87x - 24$

15. $-24x^2 - 66x - 27$

6. $-315x^2 + 415x - 120$

16. $84x^2 - 74x + 10$

7. $40x^2 + 2x - 60$

17. $-10x^2 - 48x - 32$

8. $64x^2 + 120x + 54$

18. $-12x^2 + 104x - 192$

9. $70x^2 - 145x + 60$

19. $-72x^2 + 78x + 189$

10. $24x^2 - 76x - 28$

20. $60x^2 - 147x + 90$

Factoring Quadratic Expressions (F) Answers

Name: _____

Date: _____

Factor each expression.

1. $36x^2 - 111x + 84$

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

2. $180x^2 + 240x + 35$

$5(6x + 1)(6x + 7)$

3. $45x^2 - 15x - 100$

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

4. $-48x^2 + 44x - 6$

$-2(4x - 3)(6x - 1)$

5. $-45x^2 + 87x - 24$

$-3(3x - 1)(5x - 8)$

6. $-315x^2 + 415x - 120$

$-5(7x - 3)(9x - 8)$

7. $40x^2 + 2x - 60$

$2(5x - 6)(4x + 5)$

8. $64x^2 + 120x + 54$

$2(4x + 3)(8x + 9)$

9. $70x^2 - 145x + 60$

$5(7x - 4)(2x - 3)$

10. $24x^2 - 76x - 28$

$4(3x + 1)(2x - 7)$

11. $-120x^2 - 205x + 175$

$-5(8x - 5)(3x + 7)$

12. $-96x^2 - 84x - 9$

$-3(4x + 3)(8x + 1)$

13. $-108x^2 + 276x - 160$

$-4(9x - 8)(3x - 5)$

14. $12x^2 + 87x - 72$

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

15. $-24x^2 - 66x - 27$

$-3(2x + 1)(4x + 9)$

16. $84x^2 - 74x + 10$

$2(6x - 1)(7x - 5)$

17. $-10x^2 - 48x - 32$

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

18. $-12x^2 + 104x - 192$

$-4(3x - 8)(x - 6)$

19. $-72x^2 + 78x + 189$

$-3(6x + 7)(4x - 9)$

20. $60x^2 - 147x + 90$

$3(5x - 6)(4x - 5)$