

Factoring Quadratic Expressions (C)

Name: _____

Date: _____

Factor each expression.

1. $-20x^2 - 84x + 216$

11. $-6x^2 - 75x - 189$

2. $9x^2 - 87x + 54$

12. $-15x^2 - 50x - 35$

3. $10x^2 + 54x + 20$

13. $-20x^2 + 48x + 128$

4. $-4x^2 - 22x + 42$

14. $8x^2 - 16x + 6$

5. $12x^2 + 48x + 45$

15. $3x^2 - 15x - 18$

6. $-8x^2 + 26x - 6$

16. $16x^2 - 36$

7. $6x^2 + 50x - 36$

17. $25x^2 + 160x - 320$

8. $-4x^2 + 10x + 50$

18. $6x^2 + 57x + 27$

9. $-10x^2 + 12x - 2$

19. $12x^2 - 111x + 189$

10. $8x^2 + 90x + 162$

20. $-4x^2 + 18x - 14$

Factoring Quadratic Expressions (C) Answers

Name: _____

Date: _____

Factor each expression.

1. $-20x^2 - 84x + 216$

$-4(5x - 9)(x + 6)$

2. $9x^2 - 87x + 54$

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

3. $10x^2 + 54x + 20$

$2(x + 5)(5x + 2)$

4. $-4x^2 - 22x + 42$

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

5. $12x^2 + 48x + 45$

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

6. $-8x^2 + 26x - 6$

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

7. $6x^2 + 50x - 36$

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

8. $-4x^2 + 10x + 50$

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

9. $-10x^2 + 12x - 2$

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

10. $8x^2 + 90x + 162$

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

11. $-6x^2 - 75x - 189$

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

12. $-15x^2 - 50x - 35$

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

13. $-20x^2 + 48x + 128$

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

14. $8x^2 - 16x + 6$

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

15. $3x^2 - 15x - 18$

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

16. $16x^2 - 36$

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

17. $25x^2 + 160x - 320$

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

18. $6x^2 + 57x + 27$

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

19. $12x^2 - 111x + 189$

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

20. $-4x^2 + 18x - 14$

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