

Factoring Quadratic Expressions (D)

Name: _____

Date: _____

Factor each expression.

1. $-2x^2 + 2x + 60$

11. $-4x^2 + 16x + 84$

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

12. $-20x^2 - 120x - 135$

3. $20x^2 - 120x + 135$

13. $8x^2 + 40x + 42$

4. $2x^2 + 2x - 12$

14. $20x^2 + 20x - 315$

5. $-6x^2 + 14x + 12$

15. $-3x^2 - 6x + 9$

6. $-20x^2 - 100x - 105$

16. $-6x^2 - 51x - 108$

7. $-2x^2 - 2x + 144$

17. $16x^2 + 12x - 40$

8. $-8x^2 - 54x + 162$

18. $2x^2 - 12x - 54$

9. $-16x^2 + 4x + 72$

19. $-20x^2 + 15x + 50$

10. $8x^2 + 92x + 252$

20. $8x^2 - 162$

Factoring Quadratic Expressions (D) Answers

Name: _____

Date: _____

Factor each expression.

1. $-2x^2 + 2x + 60$

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

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

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

3. $20x^2 - 120x + 135$

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

4. $2x^2 + 2x - 12$

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

5. $-6x^2 + 14x + 12$

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

6. $-20x^2 - 100x - 105$

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

7. $-2x^2 - 2x + 144$

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

8. $-8x^2 - 54x + 162$

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

9. $-16x^2 + 4x + 72$

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

10. $8x^2 + 92x + 252$

$4(2x + 9)(x + 7)$

11. $-4x^2 + 16x + 84$

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

12. $-20x^2 - 120x - 135$

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

13. $8x^2 + 40x + 42$

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

14. $20x^2 + 20x - 315$

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

15. $-3x^2 - 6x + 9$

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

16. $-6x^2 - 51x - 108$

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

17. $16x^2 + 12x - 40$

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

18. $2x^2 - 12x - 54$

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

19. $-20x^2 + 15x + 50$

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

20. $8x^2 - 162$

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