

Factoring Quadratic Expressions (D)

Name: _____

Date: _____

Factor each expression.

1. $-2x^2 - 21x - 40$

11. $3x^2 - 17x + 10$

2. $-2x^2 + 13x - 18$

12. $-3x^2 - 19x + 72$

3. $-4x^2 - 12x + 27$

13. $-2x^2 - 13x - 21$

4. $-3x^2 - 14x + 24$

14. $3x^2 - 28x + 9$

5. $-x^2 + 81$

15. $4x^2 + 12x + 9$

6. $2x^2 - 13x + 21$

16. $-4x^2 - 27x + 40$

7. $-x^2 + 10x - 16$

17. $-3x^2 - 13x + 56$

8. $-4x^2 + 19x - 21$

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

9. $-3x^2 + 14x + 5$

19. $-4x^2 - 32x - 63$

10. $2x^2 + 3x + 1$

20. $3x^2 + 14x - 24$

Factoring Quadratic Expressions (D) Answers

Name: _____

Date: _____

Factor each expression.

1. $-2x^2 - 21x - 40$

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

2. $-2x^2 + 13x - 18$

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

3. $-4x^2 - 12x + 27$

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

4. $-3x^2 - 14x + 24$

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

5. $-x^2 + 81$

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

6. $2x^2 - 13x + 21$

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

7. $-x^2 + 10x - 16$

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

8. $-4x^2 + 19x - 21$

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

9. $-3x^2 + 14x + 5$

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

10. $2x^2 + 3x + 1$

$(x + 1)(2x + 1)$

11. $3x^2 - 17x + 10$

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

12. $-3x^2 - 19x + 72$

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

13. $-2x^2 - 13x - 21$

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

14. $3x^2 - 28x + 9$

$(x - 9)(3x - 1)$

15. $4x^2 + 12x + 9$

$(2x + 3)(2x + 3) = (2x + 3)^2$

16. $-4x^2 - 27x + 40$

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

17. $-3x^2 - 13x + 56$

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

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

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

19. $-4x^2 - 32x - 63$

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

20. $3x^2 + 14x - 24$

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