

Factoring Quadratic Expressions (C)

Name: _____

Date: _____

Factor each expression.

1. $2x^2 - 7x + 6$

11. $4x^2 + 27x - 7$

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

12. $3x^2 - 5x - 28$

3. $-9x^2 - 23x - 10$

13. $-8x^2 - 26x - 15$

4. $6x^2 - 11x - 7$

14. $-2x^2 + 11x - 9$

5. $-2x^2 + 19x - 9$

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

6. $x^2 - 7x - 18$

16. $3x^2 + 8x - 16$

7. $9x^2 + 30x + 16$

17. $-7x^2 - 30x - 27$

8. $-2x^2 - 17x - 30$

18. $3x^2 - 5x + 2$

9. $-9x^2 + 80x + 9$

19. $-7x^2 - 50x - 48$

10. $-5x^2 - 23x + 42$

20. $6x^2 + x - 15$

Factoring Quadratic Expressions (C) Answers

Name: _____

Date: _____

Factor each expression.

1. $2x^2 - 7x + 6$

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

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

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

3. $-9x^2 - 23x - 10$

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

4. $6x^2 - 11x - 7$

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

5. $-2x^2 + 19x - 9$

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

6. $x^2 - 7x - 18$

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

7. $9x^2 + 30x + 16$

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

8. $-2x^2 - 17x - 30$

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

9. $-9x^2 + 80x + 9$

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

10. $-5x^2 - 23x + 42$

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

11. $4x^2 + 27x - 7$

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

12. $3x^2 - 5x - 28$

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

13. $-8x^2 - 26x - 15$

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

14. $-2x^2 + 11x - 9$

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

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

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

16. $3x^2 + 8x - 16$

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

17. $-7x^2 - 30x - 27$

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

18. $3x^2 - 5x + 2$

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

19. $-7x^2 - 50x - 48$

$-(x + 6)(7x + 8)$

20. $6x^2 + x - 15$

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