

Factoring Quadratic Expressions (J)

Name: _____

Date: _____

Factor each expression.

1. $4x^2 - 19x + 12$

11. $4x^2 - 81$

2. $4x^2 - 19x - 30$

12. $4x^2 - 39x + 27$

3. $5x^2 - 19x - 30$

13. $4x^2 - 8x - 5$

4. $5x^2 + 2x - 16$

14. $5x^2 - 16x + 12$

5. $5x^2 - x - 6$

15. $5x^2 + 31x - 28$

6. $3x^2 - 20x - 32$

16. $x^2 - 14x + 49$

7. $5x^2 - 39x + 54$

17. $3x^2 + x - 14$

8. $4x^2 + 3x - 10$

18. $4x^2 + 8x + 3$

9. $x^2 - 36$

19. $2x^2 + 13x - 45$

10. $2x^2 + 5x + 2$

20. $4x^2 - 16x + 7$

Factoring Quadratic Expressions (J) Answers

Name: _____

Date: _____

Factor each expression.

1. $4x^2 - 19x + 12$

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

2. $4x^2 - 19x - 30$

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

3. $5x^2 - 19x - 30$

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

4. $5x^2 + 2x - 16$

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

5. $5x^2 - x - 6$

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

6. $3x^2 - 20x - 32$

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

7. $5x^2 - 39x + 54$

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

8. $4x^2 + 3x - 10$

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

9. $x^2 - 36$

$(x - 6)(x + 6)$

10. $2x^2 + 5x + 2$

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

11. $4x^2 - 81$

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

12. $4x^2 - 39x + 27$

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

13. $4x^2 - 8x - 5$

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

14. $5x^2 - 16x + 12$

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

15. $5x^2 + 31x - 28$

$(5x - 4)(x + 7)$

16. $x^2 - 14x + 49$

$(x - 7)(x - 7) = (x - 7)^2$

17. $3x^2 + x - 14$

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

18. $4x^2 + 8x + 3$

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

19. $2x^2 + 13x - 45$

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

20. $4x^2 - 16x + 7$

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