

Factoring Quadratic Expressions (F)

Name: _____

Date: _____

Factor each expression.

1. $4x^2 + 23x + 28$

11. $4x^2 + 31x - 45$

2. $2x^2 - 11x - 21$

12. $4x^2 - 35x + 49$

3. $5x^2 - 9x + 4$

13. $4x^2 + 31x + 42$

4. $x^2 - 3x - 40$

14. $2x^2 - 17x + 21$

5. $2x^2 + 11x + 14$

15. $x^2 + 11x + 18$

6. $2x^2 - 3x + 1$

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

7. $5x^2 - 44x - 9$

17. $4x^2 - 19x - 5$

8. $3x^2 - 11x - 4$

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

9. $2x^2 + 3x - 27$

19. $3x^2 - 7x + 4$

10. $5x^2 - 34x + 45$

20. $5x^2 + 53x + 72$

Factoring Quadratic Expressions (F) Answers

Name: _____

Date: _____

Factor each expression.

1. $4x^2 + 23x + 28$

$(4x + 7)(x + 4)$

2. $2x^2 - 11x - 21$

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

3. $5x^2 - 9x + 4$

$(5x - 4)(x - 1)$

4. $x^2 - 3x - 40$

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

5. $2x^2 + 11x + 14$

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

6. $2x^2 - 3x + 1$

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

7. $5x^2 - 44x - 9$

$(5x + 1)(x - 9)$

8. $3x^2 - 11x - 4$

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

9. $2x^2 + 3x - 27$

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

10. $5x^2 - 34x + 45$

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

11. $4x^2 + 31x - 45$

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

12. $4x^2 - 35x + 49$

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

13. $4x^2 + 31x + 42$

$(4x + 7)(x + 6)$

14. $2x^2 - 17x + 21$

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

15. $x^2 + 11x + 18$

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

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

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

17. $4x^2 - 19x - 5$

$(x - 5)(4x + 1)$

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

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

19. $3x^2 - 7x + 4$

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

20. $5x^2 + 53x + 72$

$(5x + 8)(x + 9)$