

Factoring Quadratic Expressions (F)

Name: _____

Date: _____

Factor each expression.

1. $2x^2 - 7x + 5$

11. $3x^2 + x - 14$

2. $4x^2 - 37x + 9$

12. $4x^2 - x - 14$

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

13. $3x^2 + 20x - 32$

4. $2x^2 + 11x - 40$

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

5. $x^2 - 4x - 32$

15. $3x^2 - 8x - 35$

6. $4x^2 - 15x - 54$

16. $3x^2 - 22x + 7$

7. $3x^2 - 23x - 36$

17. $4x^2 + 4x - 3$

8. $x^2 + 10x + 16$

18. $2x^2 + 3x + 1$

9. $4x^2 - 4x + 1$

19. $3x^2 - 19x + 20$

10. $4x^2 + 16x + 15$

20. $3x^2 + 2x - 8$

Factoring Quadratic Expressions (F) Answers

Name: _____

Date: _____

Factor each expression.

1. $2x^2 - 7x + 5$

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

2. $4x^2 - 37x + 9$

$(4x - 1)(x - 9)$

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

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

4. $2x^2 + 11x - 40$

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

5. $x^2 - 4x - 32$

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

6. $4x^2 - 15x - 54$

$(x - 6)(4x + 9)$

7. $3x^2 - 23x - 36$

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

8. $x^2 + 10x + 16$

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

9. $4x^2 - 4x + 1$

$(2x - 1)(2x - 1) = (2x - 1)^2$

10. $4x^2 + 16x + 15$

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

11. $3x^2 + x - 14$

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

12. $4x^2 - x - 14$

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

13. $3x^2 + 20x - 32$

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

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

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

15. $3x^2 - 8x - 35$

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

16. $3x^2 - 22x + 7$

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

17. $4x^2 + 4x - 3$

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

18. $2x^2 + 3x + 1$

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

19. $3x^2 - 19x + 20$

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

20. $3x^2 + 2x - 8$

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