

Factoring Quadratic Expressions (I)

Name: _____

Date: _____

Factor each expression.

1. $5x^2 + 51x + 54$

11. $x^2 - 3x - 54$

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

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

3. $4x^2 + 12x + 5$

13. $4x^2 - 11x + 6$

4. $5x^2 - 22x + 8$

14. $5x^2 + 33x + 18$

5. $4x^2 + 20x + 25$

15. $x^2 - 4x - 45$

6. $3x^2 - 8x - 16$

16. $3x^2 + x - 10$

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

17. $2x^2 + 11x + 9$

8. $5x^2 + 36x + 36$

18. $4x^2 - 5x - 6$

9. $5x^2 + 42x - 27$

19. $5x^2 - 11x - 12$

10. $4x^2 + 16x + 7$

20. $3x^2 + 19x - 14$

Factoring Quadratic Expressions (I) Answers

Name: _____

Date: _____

Factor each expression.

1. $5x^2 + 51x + 54$

$(5x + 6)(x + 9)$

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

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

3. $4x^2 + 12x + 5$

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

4. $5x^2 - 22x + 8$

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

5. $4x^2 + 20x + 25$

$(2x + 5)(2x + 5) = (2x + 5)^2$

6. $3x^2 - 8x - 16$

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

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

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

8. $5x^2 + 36x + 36$

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

9. $5x^2 + 42x - 27$

$(5x - 3)(x + 9)$

10. $4x^2 + 16x + 7$

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

11. $x^2 - 3x - 54$

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

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

$(x - 2)(4x - 1)$

13. $4x^2 - 11x + 6$

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

14. $5x^2 + 33x + 18$

$(x + 6)(5x + 3)$

15. $x^2 - 4x - 45$

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

16. $3x^2 + x - 10$

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

17. $2x^2 + 11x + 9$

$(2x + 9)(x + 1)$

18. $4x^2 - 5x - 6$

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

19. $5x^2 - 11x - 12$

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

20. $3x^2 + 19x - 14$

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