

Factoring Quadratic Expressions (G)

Name: _____

Date: _____

Factor each expression.

1. $3x^2 - 23x + 14$

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

2. $4x^2 + 24x + 27$

12. $3x^2 - 34x + 63$

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

13. $3x^2 - 2x - 21$

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

14. $3x^2 - 8x - 35$

5. $4x^2 + 17x + 4$

15. $x^2 - 16x + 64$

6. $3x^2 + 19x - 72$

16. $4x^2 - 19x - 30$

7. $4x^2 - 17x + 18$

17. $4x^2 + 33x - 27$

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

18. $3x^2 - 10x - 48$

9. $4x^2 - 23x + 15$

19. $x^2 + 13x + 40$

10. $2x^2 + 7x - 9$

20. $3x^2 + x - 10$

Factoring Quadratic Expressions (G) Answers

Name: _____

Date: _____

Factor each expression.

1. $3x^2 - 23x + 14$

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

2. $4x^2 + 24x + 27$

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

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

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

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

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

5. $4x^2 + 17x + 4$

$(x + 4)(4x + 1)$

6. $3x^2 + 19x - 72$

$(3x - 8)(x + 9)$

7. $4x^2 - 17x + 18$

$(x - 2)(4x - 9)$

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

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

9. $4x^2 - 23x + 15$

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

10. $2x^2 + 7x - 9$

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

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

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

12. $3x^2 - 34x + 63$

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

13. $3x^2 - 2x - 21$

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

14. $3x^2 - 8x - 35$

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

15. $x^2 - 16x + 64$

$(x - 8)(x - 8) = (x - 8)^2$

16. $4x^2 - 19x - 30$

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

17. $4x^2 + 33x - 27$

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

18. $3x^2 - 10x - 48$

$(3x + 8)(x - 6)$

19. $x^2 + 13x + 40$

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

20. $3x^2 + x - 10$

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