

Factoring Quadratic Expressions (H)

Name: _____

Date: _____

Factor each expression.

1. $2x^2 - 17x + 21$

11. $4x^2 - 27x + 18$

2. $x^2 + x - 42$

12. $4x^2 + 12x - 7$

3. $4x^2 - 41x + 72$

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

4. $2x^2 + 11x + 15$

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

5. $x^2 - 12x + 27$

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

6. $2x^2 - 11x + 12$

16. $2x^2 - 7x + 6$

7. $2x^2 - 11x + 9$

17. $4x^2 - 12x + 5$

8. $2x^2 + 9x + 4$

18. $4x^2 + 5x - 21$

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

19. $3x^2 + 17x - 28$

10. $2x^2 + 21x + 40$

20. $4x^2 + 43x + 63$

Factoring Quadratic Expressions (H) Answers

Name: _____

Date: _____

Factor each expression.

1. $2x^2 - 17x + 21$

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

2. $x^2 + x - 42$

$(x - 6)(x + 7)$

3. $4x^2 - 41x + 72$

$(4x - 9)(x - 8)$

4. $2x^2 + 11x + 15$

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

5. $x^2 - 12x + 27$

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

6. $2x^2 - 11x + 12$

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

7. $2x^2 - 11x + 9$

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

8. $2x^2 + 9x + 4$

$(2x + 1)(x + 4)$

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

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

10. $2x^2 + 21x + 40$

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

11. $4x^2 - 27x + 18$

$(x - 6)(4x - 3)$

12. $4x^2 + 12x - 7$

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

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

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

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

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

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

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

16. $2x^2 - 7x + 6$

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

17. $4x^2 - 12x + 5$

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

18. $4x^2 + 5x - 21$

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

19. $3x^2 + 17x - 28$

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

20. $4x^2 + 43x + 63$

$(4x + 7)(x + 9)$