

Factoring Quadratic Expressions (H)

Name: _____

Date: _____

Factor each expression.

1. $3x^2 + 25x - 18$

11. $3x^2 - 17x + 10$

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

12. $3x^2 + 14x + 15$

3. $5x^2 - 28x - 49$

13. $4x^2 - 5x - 6$

4. $4x^2 + 13x - 35$

14. $3x^2 + 20x - 7$

5. $4x^2 - 20x + 21$

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

6. $3x^2 + 17x - 28$

16. $4x^2 - 24x + 35$

7. $3x^2 + 11x + 10$

17. $5x^2 - 3x - 2$

8. $4x^2 - 13x + 3$

18. $2x^2 - 11x - 21$

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

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

10. $x^2 + 3x - 54$

20. $3x^2 - 7x + 4$

Factoring Quadratic Expressions (H) Answers

Name: _____

Date: _____

Factor each expression.

1. $3x^2 + 25x - 18$

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

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

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

3. $5x^2 - 28x - 49$

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

4. $4x^2 + 13x - 35$

$(4x - 7)(x + 5)$

5. $4x^2 - 20x + 21$

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

6. $3x^2 + 17x - 28$

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

7. $3x^2 + 11x + 10$

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

8. $4x^2 - 13x + 3$

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

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

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

10. $x^2 + 3x - 54$

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

11. $3x^2 - 17x + 10$

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

12. $3x^2 + 14x + 15$

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

13. $4x^2 - 5x - 6$

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

14. $3x^2 + 20x - 7$

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

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

$(2x + 9)(x - 5)$

16. $4x^2 - 24x + 35$

$(2x - 5)(2x - 7)$

17. $5x^2 - 3x - 2$

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

18. $2x^2 - 11x - 21$

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

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

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

20. $3x^2 - 7x + 4$

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