

Factoring Quadratic Expressions (H)

Name: _____

Date: _____

Factor each expression.

1. $-x^2 + 11x - 28$

11. $2x^2 - 15x + 25$

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

12. $2x^2 - 21x + 27$

3. $3x^2 + 26x + 35$

13. $4x^2 + 11x - 3$

4. $-4x^2 - 33x - 35$

14. $-2x^2 + 17x - 35$

5. $2x^2 - 9x - 5$

15. $4x^2 + 21x + 5$

6. $3x^2 + 25x - 18$

16. $-4x^2 + 25$

7. $-4x^2 + 9$

17. $-3x^2 - 10x - 7$

8. $4x^2 - 27x - 81$

18. $-4x^2 - 36x - 81$

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

19. $4x^2 + 23x - 35$

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

20. $-x^2 - 12x - 35$

Factoring Quadratic Expressions (H) Answers

Name: _____

Date: _____

Factor each expression.

1. $-x^2 + 11x - 28$

$-(x - 7)(x - 4)$

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

$(2x - 7)(x + 6)$

3. $3x^2 + 26x + 35$

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

4. $-4x^2 - 33x - 35$

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

5. $2x^2 - 9x - 5$

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

6. $3x^2 + 25x - 18$

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

7. $-4x^2 + 9$

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

8. $4x^2 - 27x - 81$

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

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

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

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

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

11. $2x^2 - 15x + 25$

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

12. $2x^2 - 21x + 27$

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

13. $4x^2 + 11x - 3$

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

14. $-2x^2 + 17x - 35$

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

15. $4x^2 + 21x + 5$

$(x + 5)(4x + 1)$

16. $-4x^2 + 25$

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

17. $-3x^2 - 10x - 7$

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

18. $-4x^2 - 36x - 81$

$-(2x + 9)(2x + 9) = -(2x + 9)^2$

19. $4x^2 + 23x - 35$

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

20. $-x^2 - 12x - 35$

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