

Factoring Quadratic Expressions (D)

Name: _____

Date: _____

Factor each expression.

1. $18x^2 + 9x - 2$

11. $8x^2 - 17x + 9$

2. $14x^2 - x - 4$

12. $10x^2 - 39x + 35$

3. $9x^2 - 42x + 49$

13. $45x^2 - 71x + 28$

4. $24x^2 - 46x + 7$

14. $24x^2 + 35x - 49$

5. $15x^2 + 38x + 24$

15. $12x^2 - 20x + 3$

6. $18x^2 - 3x - 10$

16. $24x^2 + 10x - 21$

7. $9x^2 - 18x - 7$

17. $14x^2 - x - 3$

8. $56x^2 - 29x + 3$

18. $21x^2 - 17x + 2$

9. $6x^2 - 55x + 9$

19. $42x^2 + x - 56$

10. $18x^2 + 53x - 35$

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

Factoring Quadratic Expressions (D) Answers

Name: _____

Date: _____

Factor each expression.

1. $18x^2 + 9x - 2$

$(3x + 2)(6x - 1)$

2. $14x^2 - x - 4$

$(2x + 1)(7x - 4)$

3. $9x^2 - 42x + 49$

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

4. $24x^2 - 46x + 7$

$(4x - 7)(6x - 1)$

5. $15x^2 + 38x + 24$

$(5x + 6)(3x + 4)$

6. $18x^2 - 3x - 10$

$(3x + 2)(6x - 5)$

7. $9x^2 - 18x - 7$

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

8. $56x^2 - 29x + 3$

$(8x - 3)(7x - 1)$

9. $6x^2 - 55x + 9$

$(x - 9)(6x - 1)$

10. $18x^2 + 53x - 35$

$(2x + 7)(9x - 5)$

11. $8x^2 - 17x + 9$

$(x - 1)(8x - 9)$

12. $10x^2 - 39x + 35$

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

13. $45x^2 - 71x + 28$

$(5x - 4)(9x - 7)$

14. $24x^2 + 35x - 49$

$(3x + 7)(8x - 7)$

15. $12x^2 - 20x + 3$

$(2x - 3)(6x - 1)$

16. $24x^2 + 10x - 21$

$(6x + 7)(4x - 3)$

17. $14x^2 - x - 3$

$(7x + 3)(2x - 1)$

18. $21x^2 - 17x + 2$

$(7x - 1)(3x - 2)$

19. $42x^2 + x - 56$

$(6x + 7)(7x - 8)$

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

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