Factoring Quadratic Expressions (J)

Name:_____   Date:_____

Factor each expression.

1. $28x^2 + 67x + 9$

11. $56x^2 + 15x - 54$

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

12. $27x^2 + 21x - 20$

3. $20x^2 + 13x + 2$

13. $21x^2 + 22x + 5$

4. $4x^2 - 28x + 49$

14. $12x^2 + 28x + 15$

5. $35x^2 - 62x + 24$

15. $14x^2 + 55x + 21$

6. $63x^2 + 29x - 4$

16. $6x^2 - 5x - 25$

7. $28x^2 - 27x + 5$

17. $12x^2 + 40x + 25$

8. $56x^2 + 37x - 45$

18. $72x^2 + 59x + 12$

9. $36x^2 - x - 21$

19. $56x^2 + 25x - 4$

10. $32x^2 + 52x - 7$

20. $21x^2 - 29x + 10$

Factoring Quadratic Expressions (J) Answers

Name: _____

Date: _____

Factor each expression.

1. $28x^2 + 67x + 9$

   $(4x + 9)(7x + 1)$

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

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

3. $20x^2 + 13x + 2$

   $(4x + 1)(5x + 2)$

4. $4x^2 - 28x + 49$

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

5. $35x^2 - 62x + 24$

   $(7x - 4)(5x - 6)$

6. $63x^2 + 29x - 4$

   $(7x + 4)(9x - 1)$

7. $28x^2 - 27x + 5$

   $(7x - 5)(4x - 1)$

8. $56x^2 + 37x - 45$

   $(8x - 5)(7x + 9)$

9. $36x^2 - x - 21$

   $(9x - 7)(4x + 3)$

10. $32x^2 + 52x - 7$

    $(8x - 1)(4x + 7)$

11. $56x^2 + 15x - 54$

    $(8x + 9)(7x - 6)$

12. $27x^2 + 21x - 20$

    $(3x + 4)(9x - 5)$

13. $21x^2 + 22x + 5$

    $(3x + 1)(7x + 5)$

14. $12x^2 + 28x + 15$

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

15. $14x^2 + 55x + 21$

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

16. $6x^2 - 5x - 25$

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

17. $12x^2 + 40x + 25$

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

18. $72x^2 + 59x + 12$

    $(8x + 3)(9x + 4)$

19. $56x^2 + 25x - 4$

    $(8x - 1)(7x + 4)$

20. $21x^2 - 29x + 10$

    $(7x - 5)(3x - 2)$