Factoring Quadratic Expressions (J)

Name: _____

Date: _____

Factor each expression.

1. $2x^2 - 3x - 9$

11. $4x^2 + 23x + 28$

2. $2x^2 - x - 1$

12. $4x^2 + 19x - 30$

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

13. $2x^2 - 9x + 10$

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

14. $3x^2 + 10x + 8$

5. $x^2 + 8x + 15$

15. $2x^2 - 17x + 36$

6. $2x^2 - 5x + 2$

16. $2x^2 + 9x + 4$

7. $3x^2 - 8x + 4$

17. $4x^2 - 37x + 9$

8. $4x^2 - 31x - 45$

18. $4x^2 - 7x - 15$

9. $4x^2 + 12x + 5$

19. $2x^2 - 13x + 6$

10. $x^2 - 13x + 42$

20. $4x^2 - 24x + 35$

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Factoring Quadratic Expressions (J) Answers

Name: _____

Date: _____

Factor each expression.

1. $2x^2 - 3x - 9$

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

2. $2x^2 - x - 1$

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

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

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

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

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

5. $x^2 + 8x + 15$

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

6. $2x^2 - 5x + 2$

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

7. $3x^2 - 8x + 4$

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

8. $4x^2 - 31x - 45$

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

9. $4x^2 + 12x + 5$

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

10. $x^2 - 13x + 42$

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

11. $4x^2 + 23x + 28$

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

12. $4x^2 + 19x - 30$

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

13. $2x^2 - 9x + 10$

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

14. $3x^2 + 10x + 8$

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

15. $2x^2 - 17x + 36$

    $(2x - 9)(x - 4)$

16. $2x^2 + 9x + 4$

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

17. $4x^2 - 37x + 9$

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

18. $4x^2 - 7x - 15$

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

19. $2x^2 - 13x + 6$

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

20. $4x^2 - 24x + 35$

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