Factoring Quadratic Expressions (C)

Name:_____

Factor each expression.

1. $3x^2 - 17x + 10$

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

3. $4x^2 - 27x - 7$

4. $3x^2 - 19x - 72$

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

6. $3x^2 - 14x + 16$

7. $x^2 + 14x + 48$

8. $x^2 - 3x - 18$

9. $4x^2 + 32x + 63$

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

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

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

13. $x^2 + 4x - 32$

14. $3x^2 + 16x + 16$

15. $x^2 - 1$

16. $x^2 - 8x + 7$

17. $4x^2 + 16x - 9$

18. $3x^2 + 19x + 28$

19. $3x^2 + 4x + 1$

20. $4x^2 - 43x + 63$

Factoring Quadratic Expressions (C) Answers

Name: _____

Date: _____

Factor each expression.

1. $3x^2 - 17x + 10$

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

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

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

3. $4x^2 - 27x - 7$

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

4. $3x^2 - 19x - 72$

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

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

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

6. $3x^2 - 14x + 16$

   $(3x - 8)(x - 2)$

7. $x^2 + 14x + 48$

   $(x + 6)(x + 8)$

8. $x^2 - 3x - 18$

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

9. $4x^2 + 32x + 63$

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

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

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

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

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

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

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

13. $x^2 + 4x - 32$

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

14. $3x^2 + 16x + 16$

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

15. $x^2 - 1$

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

16. $x^2 - 8x + 7$

    $(x - 7)(x - 1)$

17. $4x^2 + 16x - 9$

    $(2x - 1)(2x + 9)$

18. $3x^2 + 19x + 28$

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

19. $3x^2 + 4x + 1$

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

20. $4x^2 - 43x + 63$

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