Factoring Quadratic Expressions (G)

Name: _____

Date: _____

Factor each expression.

1. $-15x^2 - 32x - 9$

2. $-36x^2 + 77x - 40$

3. $-30x^2 - 13x + 56$

4. $63x^2 + 59x + 10$

5. $-49x^2 + 42x + 27$

6. $-48x^2 - 38x + 21$

7. $72x^2 - 5x - 12$

8. $27x^2 + 30x - 8$

9. $30x^2 - 7x - 2$

10. $-7x^2 + 23x - 18$

11. $-72x^2 + 23x + 35$

12. $4x^2 + 5x - 6$

13. $-18x^2 - 9x + 14$

14. $-6x^2 + 11x + 72$

15. $54x^2 + 3x - 1$

16. $-35x^2 + 48x + 27$

17. $8x^2 - 19x - 15$

18. $-27x^2 + 51x + 28$

19. $-72x^2 - 79x - 14$

20. $9x^2 + 79x + 56$

Factoring Quadratic Expressions (G) Answers

Name: _____

Date: _____

Factor each expression.

1. $-15x^2 - 32x - 9$

    $-(5x + 9)(3x + 1)$

2. $-36x^2 + 77x - 40$

    $-(9x - 8)(4x - 5)$

3. $-30x^2 - 13x + 56$

    $-(6x - 7)(5x + 8)$

4. $63x^2 + 59x + 10$

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

5. $-49x^2 + 42x + 27$

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

6. $-48x^2 - 38x + 21$

    $-(8x - 3)(6x + 7)$

7. $72x^2 - 5x - 12$

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

8. $27x^2 + 30x - 8$

    $(9x - 2)(3x + 4)$

9. $30x^2 - 7x - 2$

    $(6x + 1)(5x - 2)$

10. $-7x^2 + 23x - 18$

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

11. $-72x^2 + 23x + 35$

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

12. $4x^2 + 5x - 6$

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

13. $-18x^2 - 9x + 14$

    $-(6x + 7)(3x - 2)$

14. $-6x^2 + 11x + 72$

    $-(3x + 8)(2x - 9)$

15. $54x^2 + 3x - 1$

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

16. $-35x^2 + 48x + 27$

    $-(7x + 3)(5x - 9)$

17. $8x^2 - 19x - 15$

    $(x - 3)(8x + 5)$

18. $-27x^2 + 51x + 28$

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

19. $-72x^2 - 79x - 14$

    $-(9x + 2)(8x + 7)$

20. $9x^2 + 79x + 56$

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