

Factoring Quadratic Expressions (F)

Name: _____

Date: _____

Factor each expression.

$$1. \ -35x^2 + 33x + 8$$

$$11. \ -21x^2 + 19x + 12$$

$$2. \ 20x^2 + 49x + 9$$

$$12. \ -40x^2 + 69x - 8$$

$$3. \ 10x^2 - 61x + 72$$

$$13. \ -30x^2 - 19x + 63$$

$$4. \ 8x^2 - 47x - 6$$

$$14. \ 27x^2 + 51x + 10$$

$$5. \ -7x^2 - 40x + 63$$

$$15. \ -12x^2 + 41x - 24$$

$$6. \ 18x^2 + 59x + 35$$

$$16. \ 32x^2 - 108x + 81$$

$$7. \ -2x^2 - 7x + 72$$

$$17. \ 20x^2 - 47x + 21$$

$$8. \ -42x^2 - 29x + 6$$

$$18. \ -35x^2 - 29x + 28$$

$$9. \ -6x^2 + 17x - 7$$

$$19. \ -56x^2 + 13x + 30$$

$$10. \ 5x^2 + 21x + 18$$

$$20. \ -72x^2 - 29x + 10$$

Factoring Quadratic Expressions (F) Answers

Name: _____

Date: _____

Factor each expression.

1. $-35x^2 + 33x + 8$

$-(5x + 1)(7x - 8)$

2. $20x^2 + 49x + 9$

$(5x + 1)(4x + 9)$

3. $10x^2 - 61x + 72$

$(5x - 8)(2x - 9)$

4. $8x^2 - 47x - 6$

$(x - 6)(8x + 1)$

5. $-7x^2 - 40x + 63$

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

6. $18x^2 + 59x + 35$

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

7. $-2x^2 - 7x + 72$

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

8. $-42x^2 - 29x + 6$

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

9. $-6x^2 + 17x - 7$

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

10. $5x^2 + 21x + 18$

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

11. $-21x^2 + 19x + 12$

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

12. $-40x^2 + 69x - 8$

$-(8x - 1)(5x - 8)$

13. $-30x^2 - 19x + 63$

$-(6x - 7)(5x + 9)$

14. $27x^2 + 51x + 10$

$(9x + 2)(3x + 5)$

15. $-12x^2 + 41x - 24$

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

16. $32x^2 - 108x + 81$

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

17. $20x^2 - 47x + 21$

$(5x - 3)(4x - 7)$

18. $-35x^2 - 29x + 28$

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

19. $-56x^2 + 13x + 30$

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

20. $-72x^2 - 29x + 10$

$-(9x - 2)(8x + 5)$