

# Factoring Quadratic Expressions (F)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Factor each expression.

1.  $4x^2 - 23x - 6$

11.  $45x^2 + 2x - 8$

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

12.  $40x^2 - 27x - 4$

3.  $56x^2 + 31x + 3$

13.  $2x^2 + 3x - 27$

4.  $7x^2 + 16x - 15$

14.  $63x^2 - 17x - 20$

5.  $72x^2 - 5x - 25$

15.  $40x^2 + 23x - 30$

6.  $64x^2 - 32x - 45$

16.  $28x^2 - 13x - 63$

7.  $16x^2 - 32x - 9$

17.  $56x^2 + 15x + 1$

8.  $6x^2 + 19x + 14$

18.  $48x^2 - 34x - 5$

9.  $72x^2 + 19x - 3$

19.  $21x^2 + 53x - 8$

10.  $8x^2 + 6x - 5$

20.  $49x^2 + 105x + 54$

# Factoring Quadratic Expressions (F) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Factor each expression.

1.  $4x^2 - 23x - 6$

$(4x + 1)(x - 6)$

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

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

3.  $56x^2 + 31x + 3$

$(7x + 3)(8x + 1)$

4.  $7x^2 + 16x - 15$

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

5.  $72x^2 - 5x - 25$

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

6.  $64x^2 - 32x - 45$

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

7.  $16x^2 - 32x - 9$

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

8.  $6x^2 + 19x + 14$

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

9.  $72x^2 + 19x - 3$

$(9x - 1)(8x + 3)$

10.  $8x^2 + 6x - 5$

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

11.  $45x^2 + 2x - 8$

$(9x + 4)(5x - 2)$

12.  $40x^2 - 27x - 4$

$(8x + 1)(5x - 4)$

13.  $2x^2 + 3x - 27$

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

14.  $63x^2 - 17x - 20$

$(9x + 4)(7x - 5)$

15.  $40x^2 + 23x - 30$

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

16.  $28x^2 - 13x - 63$

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

17.  $56x^2 + 15x + 1$

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

18.  $48x^2 - 34x - 5$

$(6x - 5)(8x + 1)$

19.  $21x^2 + 53x - 8$

$(3x + 8)(7x - 1)$

20.  $49x^2 + 105x + 54$

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