

# Factoring Quadratic Expressions (C)

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

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

Factor each expression.

1.  $-20x^2 - x + 63$

11.  $-6x^2 - 31x + 30$

2.  $36x^2 + 49x + 5$

12.  $-4x^2 - x + 18$

3.  $6x^2 - 17x - 28$

13.  $20x^2 + 31x - 7$

4.  $8x^2 - 26x + 21$

14.  $-2x^2 + 19x - 9$

5.  $20x^2 + 7x - 49$

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

6.  $-20x^2 - 51x - 28$

16.  $-40x^2 + 47x + 45$

7.  $72x^2 - 41x - 45$

17.  $-42x^2 - 13x + 40$

8.  $-12x^2 - 16x + 35$

18.  $20x^2 - 23x + 6$

9.  $-2x^2 + 11x - 15$

19.  $-35x^2 + 22x - 3$

10.  $3x^2 - x - 14$

20.  $28x^2 + 65x + 28$

# Factoring Quadratic Expressions (C) Answers

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

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

Factor each expression.

1.  $-20x^2 - x + 63$

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

2.  $36x^2 + 49x + 5$

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

3.  $6x^2 - 17x - 28$

$(x - 4)(6x + 7)$

4.  $8x^2 - 26x + 21$

$(2x - 3)(4x - 7)$

5.  $20x^2 + 7x - 49$

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

6.  $-20x^2 - 51x - 28$

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

7.  $72x^2 - 41x - 45$

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

8.  $-12x^2 - 16x + 35$

$-(2x + 5)(6x - 7)$

9.  $-2x^2 + 11x - 15$

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

10.  $3x^2 - x - 14$

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

11.  $-6x^2 - 31x + 30$

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

12.  $-4x^2 - x + 18$

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

13.  $20x^2 + 31x - 7$

$(4x + 7)(5x - 1)$

14.  $-2x^2 + 19x - 9$

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

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

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

16.  $-40x^2 + 47x + 45$

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

17.  $-42x^2 - 13x + 40$

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

18.  $20x^2 - 23x + 6$

$(4x - 3)(5x - 2)$

19.  $-35x^2 + 22x - 3$

$-(5x - 1)(7x - 3)$

20.  $28x^2 + 65x + 28$

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