

# Factoring Quadratic Expressions (C)

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

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

Factor each expression.

1.  $4x^2 + 29x - 24$

11.  $-4x^2 + 29x - 30$

2.  $-3x^2 + 7x - 2$

12.  $4x^2 + 24x + 27$

3.  $-3x^2 + 19x + 40$

13.  $-3x^2 - 14x - 8$

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

14.  $x^2 - 6x + 9$

5.  $2x^2 + 17x - 9$

15.  $4x^2 - 41x + 45$

6.  $-4x^2 - 43x - 63$

16.  $4x^2 - 15x + 9$

7.  $3x^2 + 14x - 49$

17.  $-4x^2 - 31x - 21$

8.  $3x^2 - 2x - 16$

18.  $2x^2 + 3x - 5$

9.  $-3x^2 + 13x + 30$

19.  $2x^2 + 11x + 5$

10.  $2x^2 - 11x - 21$

20.  $-3x^2 - 19x + 14$

# Factoring Quadratic Expressions (C) Answers

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

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

Factor each expression.

1.  $4x^2 + 29x - 24$

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

2.  $-3x^2 + 7x - 2$

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

3.  $-3x^2 + 19x + 40$

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

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

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

5.  $2x^2 + 17x - 9$

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

6.  $-4x^2 - 43x - 63$

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

7.  $3x^2 + 14x - 49$

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

8.  $3x^2 - 2x - 16$

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

9.  $-3x^2 + 13x + 30$

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

10.  $2x^2 - 11x - 21$

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

11.  $-4x^2 + 29x - 30$

$-(4x - 5)(x - 6)$

12.  $4x^2 + 24x + 27$

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

13.  $-3x^2 - 14x - 8$

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

14.  $x^2 - 6x + 9$

$(x - 3)(x - 3) = (x - 3)^2$

15.  $4x^2 - 41x + 45$

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

16.  $4x^2 - 15x + 9$

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

17.  $-4x^2 - 31x - 21$

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

18.  $2x^2 + 3x - 5$

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

19.  $2x^2 + 11x + 5$

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

20.  $-3x^2 - 19x + 14$

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