

# Factoring Quadratic Expressions (D)

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

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

Factor each expression.

1.  $-3x^2 - x + 24$

11.  $4x^2 + 15x - 25$

2.  $5x^2 - 7x - 24$

12.  $5x^2 - 14x - 24$

3.  $-4x^2 - 13x - 9$

13.  $-4x^2 + 41x - 45$

4.  $x^2 + 3x - 10$

14.  $-3x^2 - 31x - 36$

5.  $5x^2 + 33x + 18$

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

6.  $-2x^2 - 21x - 40$

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

7.  $-4x^2 - 31x - 42$

17.  $-4x^2 + 43x - 63$

8.  $-2x^2 - 21x - 49$

18.  $-3x^2 - 23x - 14$

9.  $4x^2 - 17x - 42$

19.  $-4x^2 - 11x + 20$

10.  $-5x^2 - 42x - 49$

20.  $-4x^2 + 5x - 1$

# Factoring Quadratic Expressions (D) Answers

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

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

Factor each expression.

1.  $-3x^2 - x + 24$

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

2.  $5x^2 - 7x - 24$

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

3.  $-4x^2 - 13x - 9$

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

4.  $x^2 + 3x - 10$

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

5.  $5x^2 + 33x + 18$

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

6.  $-2x^2 - 21x - 40$

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

7.  $-4x^2 - 31x - 42$

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

8.  $-2x^2 - 21x - 49$

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

9.  $4x^2 - 17x - 42$

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

10.  $-5x^2 - 42x - 49$

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

11.  $4x^2 + 15x - 25$

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

12.  $5x^2 - 14x - 24$

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

13.  $-4x^2 + 41x - 45$

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

14.  $-3x^2 - 31x - 36$

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

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

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

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

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

17.  $-4x^2 + 43x - 63$

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

18.  $-3x^2 - 23x - 14$

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

19.  $-4x^2 - 11x + 20$

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

20.  $-4x^2 + 5x - 1$

$-(x - 1)(4x - 1)$