

# Factoring Quadratic Expressions (E)

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

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

Factor each expression.

1.  $2x^2 + 5x + 3$

11.  $-2x^2 + 7x - 5$

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

12.  $-4x^2 + 27x + 7$

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

13.  $4x^2 - 32x + 63$

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

14.  $-4x^2 + 25x - 25$

5.  $-2x^2 - 7x - 3$

15.  $-5x^2 - 39x + 54$

6.  $2x^2 - 5x - 18$

16.  $3x^2 + 10x - 25$

7.  $5x^2 - 28x + 15$

17.  $4x^2 - 35x + 24$

8.  $-4x^2 + 28x - 45$

18.  $-4x^2 - 27x + 81$

9.  $3x^2 - 11x - 4$

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

10.  $-2x^2 + 9x + 18$

20.  $5x^2 - 11x + 2$

# Factoring Quadratic Expressions (E) Answers

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

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

Factor each expression.

1.  $2x^2 + 5x + 3$

$(x + 1)(2x + 3)$

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

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

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

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

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

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

5.  $-2x^2 - 7x - 3$

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

6.  $2x^2 - 5x - 18$

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

7.  $5x^2 - 28x + 15$

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

8.  $-4x^2 + 28x - 45$

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

9.  $3x^2 - 11x - 4$

$(3x + 1)(x - 4)$

10.  $-2x^2 + 9x + 18$

$-(x - 6)(2x + 3)$

11.  $-2x^2 + 7x - 5$

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

12.  $-4x^2 + 27x + 7$

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

13.  $4x^2 - 32x + 63$

$(2x - 7)(2x - 9)$

14.  $-4x^2 + 25x - 25$

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

15.  $-5x^2 - 39x + 54$

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

16.  $3x^2 + 10x - 25$

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

17.  $4x^2 - 35x + 24$

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

18.  $-4x^2 - 27x + 81$

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

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

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

20.  $5x^2 - 11x + 2$

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