

# Factoring Quadratic Expressions (E)

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

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

Factor each expression.

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

11.  $x^2 - x - 20$

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

12.  $x^2 - 2x - 35$

3.  $x^2 + x - 56$

13.  $-x^2 - 6x + 16$

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

14.  $-x^2 - 5x + 6$

5.  $-x^2 + 64$

15.  $x^2 + 17x + 72$

6.  $x^2 - 4x - 32$

16.  $-x^2 + 5x + 6$

7.  $x^2 - 3x - 4$

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

8.  $x^2 + 11x + 28$

18.  $-x^2 + 2x + 48$

9.  $-x^2 + 10x - 21$

19.  $-x^2 + 10x - 16$

10.  $-x^2 + 9x - 8$

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

# Factoring Quadratic Expressions (E) Answers

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

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

Factor each expression.

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

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

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

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

3.  $x^2 + x - 56$

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

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

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

5.  $-x^2 + 64$

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

6.  $x^2 - 4x - 32$

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

7.  $x^2 - 3x - 4$

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

8.  $x^2 + 11x + 28$

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

9.  $-x^2 + 10x - 21$

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

10.  $-x^2 + 9x - 8$

$-(x - 8)(x - 1)$

11.  $x^2 - x - 20$

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

12.  $x^2 - 2x - 35$

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

13.  $-x^2 - 6x + 16$

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

14.  $-x^2 - 5x + 6$

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

15.  $x^2 + 17x + 72$

$(x + 9)(x + 8)$

16.  $-x^2 + 5x + 6$

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

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

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

18.  $-x^2 + 2x + 48$

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

19.  $-x^2 + 10x - 16$

$-(x - 2)(x - 8)$

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

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