

# Factoring Quadratic Expressions (A)

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

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

Factor each expression.

1.  $-x^2 - 8x - 12$

11.  $-x^2 - 4x + 21$

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

12.  $x^2 - 6x - 27$

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

13.  $-x^2 - 8x - 7$

4.  $-x^2 + 12x - 36$

14.  $x^2 + 11x + 24$

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

15.  $x^2 + 5x - 24$

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

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

7.  $-x^2 - x + 6$

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

8.  $x^2 + 6x + 8$

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

9.  $x^2 - 49$

19.  $x^2 + x - 20$

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

20.  $-x^2 + 49$

# Factoring Quadratic Expressions (A) Answers

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

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

Factor each expression.

1.  $-x^2 - 8x - 12$

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

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

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

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

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

4.  $-x^2 + 12x - 36$

$-(x - 6)(x - 6) = -(x - 6)^2$

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

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

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

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

7.  $-x^2 - x + 6$

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

8.  $x^2 + 6x + 8$

$(x + 2)(x + 4)$

9.  $x^2 - 49$

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

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

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

11.  $-x^2 - 4x + 21$

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

12.  $x^2 - 6x - 27$

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

13.  $-x^2 - 8x - 7$

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

14.  $x^2 + 11x + 24$

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

15.  $x^2 + 5x - 24$

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

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

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

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

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

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

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

19.  $x^2 + x - 20$

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

20.  $-x^2 + 49$

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

# Factoring Quadratic Expressions (B)

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

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

Factor each expression.

1.  $x^2 + 11x + 18$

11.  $-x^2 + x + 56$

2.  $-x^2 + 10x - 24$

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

3.  $x^2 + 7x + 12$

13.  $-x^2 - 6x - 9$

4.  $-x^2 + 9x - 20$

14.  $x^2 - x - 20$

5.  $x^2 + 12x + 32$

15.  $-x^2 + 15x - 56$

6.  $x^2 + 10x + 25$

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

7.  $x^2 + 9x + 18$

17.  $-x^2 - 8x - 15$

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

18.  $x^2 + 8x + 12$

9.  $x^2 - 2x - 63$

19.  $-x^2 - 9x - 20$

10.  $x^2 + x - 56$

20.  $-x^2 - 14x - 48$

# Factoring Quadratic Expressions (B) Answers

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

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

Factor each expression.

1.  $x^2 + 11x + 18$

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

2.  $-x^2 + 10x - 24$

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

3.  $x^2 + 7x + 12$

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

4.  $-x^2 + 9x - 20$

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

5.  $x^2 + 12x + 32$

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

6.  $x^2 + 10x + 25$

$(x + 5)(x + 5) = (x + 5)^2$

7.  $x^2 + 9x + 18$

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

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

$(x + 9)(x + 1)$

9.  $x^2 - 2x - 63$

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

10.  $x^2 + x - 56$

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

11.  $-x^2 + x + 56$

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

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

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

13.  $-x^2 - 6x - 9$

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

14.  $x^2 - x - 20$

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

15.  $-x^2 + 15x - 56$

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

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

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

17.  $-x^2 - 8x - 15$

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

18.  $x^2 + 8x + 12$

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

19.  $-x^2 - 9x - 20$

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

20.  $-x^2 - 14x - 48$

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

# Factoring Quadratic Expressions (C)

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

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

Factor each expression.

1.  $-x^2 - 8x - 7$

11.  $-x^2 + 7x - 12$

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

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

3.  $x^2 - 2x - 48$

13.  $x^2 - 7x + 6$

4.  $x^2 - 16$

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

5.  $-x^2 - 11x - 24$

15.  $x^2 - 4x - 21$

6.  $x^2 + 4x - 21$

16.  $x^2 - 15x + 56$

7.  $-x^2 + 11x - 30$

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

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

18.  $x^2 - 6x - 7$

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

19.  $-x^2 - 4x + 45$

10.  $-x^2 + 11x - 18$

20.  $-x^2 + 9x - 20$

# Factoring Quadratic Expressions (C) Answers

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

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

Factor each expression.

1.  $-x^2 - 8x - 7$

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

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

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

3.  $x^2 - 2x - 48$

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

4.  $x^2 - 16$

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

5.  $-x^2 - 11x - 24$

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

6.  $x^2 + 4x - 21$

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

7.  $-x^2 + 11x - 30$

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

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

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

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

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

10.  $-x^2 + 11x - 18$

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

11.  $-x^2 + 7x - 12$

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

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

$-(x + 4)(x + 4) = -(x + 4)^2$

13.  $x^2 - 7x + 6$

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

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

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

15.  $x^2 - 4x - 21$

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

16.  $x^2 - 15x + 56$

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

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

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

18.  $x^2 - 6x - 7$

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

19.  $-x^2 - 4x + 45$

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

20.  $-x^2 + 9x - 20$

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

# Factoring Quadratic Expressions (D)

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

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

Factor each expression.

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

11.  $x^2 - 12x + 27$

2.  $x^2 - 11x + 24$

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

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

13.  $-x^2 - x + 56$

4.  $-x^2 + x + 56$

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

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

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

6.  $x^2 + 11x + 24$

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

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

17.  $-x^2 - 11x - 18$

8.  $x^2 + 8x + 15$

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

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

19.  $x^2 + 6x + 8$

10.  $x^2 - 49$

20.  $-x^2 + 2x + 24$

# Factoring Quadratic Expressions (D) Answers

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

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

Factor each expression.

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

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

2.  $x^2 - 11x + 24$

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

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

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

4.  $-x^2 + x + 56$

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

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

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

6.  $x^2 + 11x + 24$

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

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

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

8.  $x^2 + 8x + 15$

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

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

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

10.  $x^2 - 49$

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

11.  $x^2 - 12x + 27$

$$(x - 3)(x - 9)$$

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

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

13.  $-x^2 - x + 56$

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

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

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

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

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

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

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

17.  $-x^2 - 11x - 18$

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

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

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

19.  $x^2 + 6x + 8$

$$(x + 4)(x + 2)$$

20.  $-x^2 + 2x + 24$

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



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

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

# Factoring Quadratic Expressions (F)

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

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

Factor each expression.

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

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

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

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

3.  $-x^2 - 12x - 27$

13.  $-x^2 - 7x - 6$

4.  $x^2 - 8x + 12$

14.  $x^2 - 36$

5.  $x^2 + 7x + 6$

15.  $x^2 - 2x - 35$

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

16.  $x^2 + 11x + 24$

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

17.  $x^2 - 49$

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

18.  $-x^2 - 8x - 15$

9.  $x^2 + 3x - 54$

19.  $x^2 - 7x + 12$

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

20.  $-x^2 + 9$

# Factoring Quadratic Expressions (F) Answers

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

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

Factor each expression.

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

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

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

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

3.  $-x^2 - 12x - 27$

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

4.  $x^2 - 8x + 12$

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

5.  $x^2 + 7x + 6$

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

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

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

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

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

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

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

9.  $x^2 + 3x - 54$

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

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

$(x + 1)(x + 9)$

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

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

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

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

13.  $-x^2 - 7x - 6$

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

14.  $x^2 - 36$

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

15.  $x^2 - 2x - 35$

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

16.  $x^2 + 11x + 24$

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

17.  $x^2 - 49$

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

18.  $-x^2 - 8x - 15$

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

19.  $x^2 - 7x + 12$

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

20.  $-x^2 + 9$

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

# Factoring Quadratic Expressions (G)

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

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

Factor each expression.

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

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

2.  $x^2 + 8x + 12$

12.  $x^2 - 6x - 16$

3.  $x^2 - 5x - 36$

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

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

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

5.  $x^2 - 7x + 6$

15.  $x^2 - 9$

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

16.  $x^2 - 16x + 63$

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

17.  $-x^2 - 11x - 18$

8.  $x^2 - x - 20$

18.  $-x^2 - 2x + 24$

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

19.  $-x^2 + 4x + 45$

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

20.  $x^2 - 6x - 7$

# Factoring Quadratic Expressions (G) Answers

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

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

Factor each expression.

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

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

2.  $x^2 + 8x + 12$

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

3.  $x^2 - 5x - 36$

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

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

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

5.  $x^2 - 7x + 6$

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

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

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

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

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

8.  $x^2 - x - 20$

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

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

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

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

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

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

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

12.  $x^2 - 6x - 16$

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

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

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

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

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

15.  $x^2 - 9$

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

16.  $x^2 - 16x + 63$

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

17.  $-x^2 - 11x - 18$

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

18.  $-x^2 - 2x + 24$

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

19.  $-x^2 + 4x + 45$

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

20.  $x^2 - 6x - 7$

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

# Factoring Quadratic Expressions (H)

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

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

Factor each expression.

1.  $x^2 - 13x + 42$

11.  $x^2 - 6x - 27$

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

12.  $x^2 + 2x - 24$

3.  $-x^2 - 14x - 45$

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

4.  $x^2 - 3x - 54$

14.  $-x^2 + x + 56$

5.  $x^2 - 11x + 28$

15.  $-x^2 - 11x - 24$

6.  $x^2 + 10x + 24$

16.  $-x^2 - 9x - 18$

7.  $-x^2 + 14x - 48$

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

8.  $-x^2 - 3x + 54$

18.  $x^2 - 3x - 28$

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

19.  $-x^2 + 7x - 10$

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

20.  $-x^2 - 4x + 21$

# Factoring Quadratic Expressions (H) Answers

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

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

Factor each expression.

1.  $x^2 - 13x + 42$

$(x - 7)(x - 6)$

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

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

3.  $-x^2 - 14x - 45$

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

4.  $x^2 - 3x - 54$

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

5.  $x^2 - 11x + 28$

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

6.  $x^2 + 10x + 24$

$(x + 4)(x + 6)$

7.  $-x^2 + 14x - 48$

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

8.  $-x^2 - 3x + 54$

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

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

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

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

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

11.  $x^2 - 6x - 27$

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

12.  $x^2 + 2x - 24$

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

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

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

14.  $-x^2 + x + 56$

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

15.  $-x^2 - 11x - 24$

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

16.  $-x^2 - 9x - 18$

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

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

$-(x - 7)(x - 6)$

18.  $x^2 - 3x - 28$

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

19.  $-x^2 + 7x - 10$

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

20.  $-x^2 - 4x + 21$

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



# Factoring Quadratic Expressions (I)

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

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

Factor each expression.

1.  $x^2 + 10x + 21$

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

2.  $-x^2 - 14x - 48$

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

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

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

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

14.  $-x^2 - 2x + 8$

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

15.  $x^2 - 14x + 49$

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

16.  $-x^2 + 13x - 40$

7.  $x^2 + 9x + 18$

17.  $-x^2 + 7x - 10$

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

18.  $x^2 + 7x - 18$

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

19.  $x^2 - 7x + 6$

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

20.  $-x^2 + 7x - 6$

# Factoring Quadratic Expressions (I) Answers

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

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

Factor each expression.

1.  $x^2 + 10x + 21$

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

2.  $-x^2 - 14x - 48$

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

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

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

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

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

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

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

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

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

7.  $x^2 + 9x + 18$

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

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

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

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

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

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

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

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

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

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

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

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

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

14.  $-x^2 - 2x + 8$

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

15.  $x^2 - 14x + 49$

$(x - 7)(x - 7) = (x - 7)^2$

16.  $-x^2 + 13x - 40$

$-(x - 8)(x - 5)$

17.  $-x^2 + 7x - 10$

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

18.  $x^2 + 7x - 18$

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

19.  $x^2 - 7x + 6$

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

20.  $-x^2 + 7x - 6$

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

# Factoring Quadratic Expressions (J)

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

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

Factor each expression.

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

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

2.  $x^2 - x - 12$

12.  $x^2 - 8x + 7$

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

13.  $x^2 - 3x - 54$

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

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

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

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

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

16.  $x^2 + 7x - 18$

7.  $-x^2 + 49$

17.  $x^2 - x - 42$

8.  $x^2 + x - 20$

18.  $x^2 - 15x + 56$

9.  $-x^2 + 17x - 72$

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

10.  $-x^2 - 15x - 56$

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

# Factoring Quadratic Expressions (J) Answers

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

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

Factor each expression.

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

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

2.  $x^2 - x - 12$

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

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

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

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

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

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

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

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

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

7.  $-x^2 + 49$

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

8.  $x^2 + x - 20$

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

9.  $-x^2 + 17x - 72$

$-(x - 9)(x - 8)$

10.  $-x^2 - 15x - 56$

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

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

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

12.  $x^2 - 8x + 7$

$(x - 1)(x - 7)$

13.  $x^2 - 3x - 54$

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

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

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

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

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

16.  $x^2 + 7x - 18$

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

17.  $x^2 - x - 42$

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

18.  $x^2 - 15x + 56$

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

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

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

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

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