

# Factoring Quadratic Expressions (A)

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

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

Factor each expression.

1.  $6x^2 - 5x + 1$

11.  $5x^2 + 18x + 9$

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

12.  $8x^2 - 9x + 1$

3.  $5x^2 - 36x - 81$

13.  $6x^2 - 35x + 49$

4.  $2x^2 - 7x - 72$

14.  $9x^2 - 49x + 20$

5.  $8x^2 + 42x + 49$

15.  $5x^2 - 18x + 16$

6.  $7x^2 + 18x - 9$

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

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

17.  $8x^2 - 27x - 20$

8.  $4x^2 + 17x + 18$

18.  $3x^2 + 23x - 8$

9.  $5x^2 + 24x - 36$

19.  $5x^2 - 36x + 36$

10.  $4x^2 - 8x - 5$

20.  $4x^2 - 24x + 35$

# Factoring Quadratic Expressions (A) Answers

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

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

Factor each expression.

1.  $6x^2 - 5x + 1$

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

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

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

3.  $5x^2 - 36x - 81$

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

4.  $2x^2 - 7x - 72$

$(x - 8)(2x + 9)$

5.  $8x^2 + 42x + 49$

$(4x + 7)(2x + 7)$

6.  $7x^2 + 18x - 9$

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

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

$(2x + 1)(3x - 5)$

8.  $4x^2 + 17x + 18$

$(x + 2)(4x + 9)$

9.  $5x^2 + 24x - 36$

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

10.  $4x^2 - 8x - 5$

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

11.  $5x^2 + 18x + 9$

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

12.  $8x^2 - 9x + 1$

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

13.  $6x^2 - 35x + 49$

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

14.  $9x^2 - 49x + 20$

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

15.  $5x^2 - 18x + 16$

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

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

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

17.  $8x^2 - 27x - 20$

$(x - 4)(8x + 5)$

18.  $3x^2 + 23x - 8$

$(x + 8)(3x - 1)$

19.  $5x^2 - 36x + 36$

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

20.  $4x^2 - 24x + 35$

$(2x - 5)(2x - 7)$

## Factoring Quadratic Expressions (B)

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

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

Factor each expression.

1.  $6x^2 - 53x + 40$

11.  $5x^2 - 33x - 14$

2.  $8x^2 + 6x - 9$

12.  $7x^2 - 34x - 48$

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

13.  $6x^2 - 17x - 28$

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

14.  $2x^2 + 21x + 40$

5.  $6x^2 + 29x + 9$

15.  $8x^2 + 9x - 14$

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

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

7.  $6x^2 + 31x + 5$

17.  $7x^2 - 37x + 10$

8.  $6x^2 - 13x - 63$

18.  $8x^2 - 30x - 27$

9.  $8x^2 - 22x + 9$

19.  $3x^2 - 4x + 1$

10.  $6x^2 - 61x + 63$

20.  $8x^2 + 6x - 35$

# Factoring Quadratic Expressions (B) Answers

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

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

Factor each expression.

1.  $6x^2 - 53x + 40$

$(6x - 5)(x - 8)$

2.  $8x^2 + 6x - 9$

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

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

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

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

$(2x - 1)(2x - 1) = (2x - 1)^2$

5.  $6x^2 + 29x + 9$

$(3x + 1)(2x + 9)$

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

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

7.  $6x^2 + 31x + 5$

$(6x + 1)(x + 5)$

8.  $6x^2 - 13x - 63$

$(3x + 7)(2x - 9)$

9.  $8x^2 - 22x + 9$

$(4x - 9)(2x - 1)$

10.  $6x^2 - 61x + 63$

$(x - 9)(6x - 7)$

11.  $5x^2 - 33x - 14$

$(5x + 2)(x - 7)$

12.  $7x^2 - 34x - 48$

$(7x + 8)(x - 6)$

13.  $6x^2 - 17x - 28$

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

14.  $2x^2 + 21x + 40$

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

15.  $8x^2 + 9x - 14$

$(8x - 7)(x + 2)$

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

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

17.  $7x^2 - 37x + 10$

$(x - 5)(7x - 2)$

18.  $8x^2 - 30x - 27$

$(2x - 9)(4x + 3)$

19.  $3x^2 - 4x + 1$

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

20.  $8x^2 + 6x - 35$

$(2x + 5)(4x - 7)$

# Factoring Quadratic Expressions (C)

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

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

Factor each expression.

1.  $6x^2 + 35x + 25$

11.  $9x^2 - 40x + 16$

2.  $4x^2 - 35x - 9$

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

3.  $8x^2 - 23x - 36$

13.  $4x^2 - 17x - 15$

4.  $6x^2 - 49x + 49$

14.  $4x^2 - 21x + 20$

5.  $7x^2 - 31x + 12$

15.  $8x^2 + 51x + 18$

6.  $3x^2 - 11x - 4$

16.  $8x^2 - 9x - 14$

7.  $2x^2 + 21x + 49$

17.  $7x^2 + 17x + 6$

8.  $8x^2 - 26x + 15$

18.  $8x^2 + 2x - 45$

9.  $2x^2 - 11x - 21$

19.  $9x^2 - 29x + 6$

10.  $7x^2 - 27x - 4$

20.  $3x^2 + 16x + 5$

# Factoring Quadratic Expressions (C) Answers

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

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

Factor each expression.

1.  $6x^2 + 35x + 25$

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

2.  $4x^2 - 35x - 9$

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

3.  $8x^2 - 23x - 36$

$(x - 4)(8x + 9)$

4.  $6x^2 - 49x + 49$

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

5.  $7x^2 - 31x + 12$

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

6.  $3x^2 - 11x - 4$

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

7.  $2x^2 + 21x + 49$

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

8.  $8x^2 - 26x + 15$

$(2x - 5)(4x - 3)$

9.  $2x^2 - 11x - 21$

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

10.  $7x^2 - 27x - 4$

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

11.  $9x^2 - 40x + 16$

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

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

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

13.  $4x^2 - 17x - 15$

$(4x + 3)(x - 5)$

14.  $4x^2 - 21x + 20$

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

15.  $8x^2 + 51x + 18$

$(8x + 3)(x + 6)$

16.  $8x^2 - 9x - 14$

$(8x + 7)(x - 2)$

17.  $7x^2 + 17x + 6$

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

18.  $8x^2 + 2x - 45$

$(2x + 5)(4x - 9)$

19.  $9x^2 - 29x + 6$

$(x - 3)(9x - 2)$

20.  $3x^2 + 16x + 5$

$(x + 5)(3x + 1)$

# Factoring Quadratic Expressions (D)

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

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

Factor each expression.

1.  $2x^2 - 13x + 6$

11.  $6x^2 + 7x + 2$

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

12.  $6x^2 + x - 7$

3.  $x^2 + x - 30$

13.  $5x^2 + 22x + 21$

4.  $3x^2 - 13x + 12$

14.  $6x^2 - 29x + 20$

5.  $2x^2 - 7x - 49$

15.  $4x^2 + 4x - 63$

6.  $4x^2 - 45x + 81$

16.  $6x^2 + 43x + 7$

7.  $7x^2 + 27x + 18$

17.  $6x^2 - 29x - 5$

8.  $4x^2 - 16x + 15$

18.  $5x^2 + 51x + 54$

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

19.  $6x^2 + 23x - 35$

10.  $5x^2 - 22x + 8$

20.  $5x^2 + 22x - 48$

# Factoring Quadratic Expressions (D) Answers

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

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

Factor each expression.

1.  $2x^2 - 13x + 6$

$(2x - 1)(x - 6)$

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

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

3.  $x^2 + x - 30$

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

4.  $3x^2 - 13x + 12$

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

5.  $2x^2 - 7x - 49$

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

6.  $4x^2 - 45x + 81$

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

7.  $7x^2 + 27x + 18$

$(7x + 6)(x + 3)$

8.  $4x^2 - 16x + 15$

$(2x - 5)(2x - 3)$

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

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

10.  $5x^2 - 22x + 8$

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

11.  $6x^2 + 7x + 2$

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

12.  $6x^2 + x - 7$

$(6x + 7)(x - 1)$

13.  $5x^2 + 22x + 21$

$(x + 3)(5x + 7)$

14.  $6x^2 - 29x + 20$

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

15.  $4x^2 + 4x - 63$

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

16.  $6x^2 + 43x + 7$

$(x + 7)(6x + 1)$

17.  $6x^2 - 29x - 5$

$(x - 5)(6x + 1)$

18.  $5x^2 + 51x + 54$

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

19.  $6x^2 + 23x - 35$

$(x + 5)(6x - 7)$

20.  $5x^2 + 22x - 48$

$(x + 6)(5x - 8)$



# Factoring Quadratic Expressions (E)

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

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

Factor each expression.

1.  $9x^2 - 12x - 5$

11.  $7x^2 + 16x + 9$

2.  $7x^2 - 38x + 15$

12.  $4x^2 + 35x + 24$

3.  $8x^2 + 42x + 49$

13.  $3x^2 + 19x - 72$

4.  $3x^2 + 17x - 56$

14.  $7x^2 + 5x - 2$

5.  $3x^2 + 2x - 16$

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

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

16.  $4x^2 - 9$

7.  $3x^2 + 13x + 14$

17.  $3x^2 + 10x - 25$

8.  $9x^2 - 18x + 5$

18.  $9x^2 - 64$

9.  $4x^2 - 20x + 25$

19.  $x^2 - 64$

10.  $7x^2 + 34x + 24$

20.  $3x^2 + 5x - 28$

# Factoring Quadratic Expressions (E) Answers

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

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

Factor each expression.

1.  $9x^2 - 12x - 5$

$(3x + 1)(3x - 5)$

2.  $7x^2 - 38x + 15$

$(7x - 3)(x - 5)$

3.  $8x^2 + 42x + 49$

$(4x + 7)(2x + 7)$

4.  $3x^2 + 17x - 56$

$(x + 8)(3x - 7)$

5.  $3x^2 + 2x - 16$

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

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

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

7.  $3x^2 + 13x + 14$

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

8.  $9x^2 - 18x + 5$

$(3x - 1)(3x - 5)$

9.  $4x^2 - 20x + 25$

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

10.  $7x^2 + 34x + 24$

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

11.  $7x^2 + 16x + 9$

$(x + 1)(7x + 9)$

12.  $4x^2 + 35x + 24$

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

13.  $3x^2 + 19x - 72$

$(3x - 8)(x + 9)$

14.  $7x^2 + 5x - 2$

$(7x - 2)(x + 1)$

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

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

16.  $4x^2 - 9$

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

17.  $3x^2 + 10x - 25$

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

18.  $9x^2 - 64$

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

19.  $x^2 - 64$

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

20.  $3x^2 + 5x - 28$

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

# Factoring Quadratic Expressions (F)

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

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

Factor each expression.

1.  $6x^2 + 11x - 72$

11.  $9x^2 - 8x - 1$

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

12.  $8x^2 - 43x - 30$

3.  $3x^2 - 22x + 7$

13.  $5x^2 - 17x + 6$

4.  $8x^2 - 55x - 72$

14.  $8x^2 - 34x - 9$

5.  $4x^2 - 23x + 28$

15.  $4x^2 - 32x + 63$

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

16.  $7x^2 + 37x + 36$

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

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

8.  $4x^2 - 19x - 63$

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

9.  $8x^2 + 6x - 35$

19.  $8x^2 + 14x + 5$

10.  $6x^2 + 5x - 21$

20.  $2x^2 + 7x + 5$

# Factoring Quadratic Expressions (F) Answers

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

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

Factor each expression.

1.  $6x^2 + 11x - 72$

$(2x + 9)(3x - 8)$

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

$(x - 6)(2x + 5)$

3.  $3x^2 - 22x + 7$

$(3x - 1)(x - 7)$

4.  $8x^2 - 55x - 72$

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

5.  $4x^2 - 23x + 28$

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

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

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

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

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

8.  $4x^2 - 19x - 63$

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

9.  $8x^2 + 6x - 35$

$(4x - 7)(2x + 5)$

10.  $6x^2 + 5x - 21$

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

11.  $9x^2 - 8x - 1$

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

12.  $8x^2 - 43x - 30$

$(x - 6)(8x + 5)$

13.  $5x^2 - 17x + 6$

$(x - 3)(5x - 2)$

14.  $8x^2 - 34x - 9$

$(2x - 9)(4x + 1)$

15.  $4x^2 - 32x + 63$

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

16.  $7x^2 + 37x + 36$

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

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

$(2x + 7)(2x - 5)$

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

$(4x + 5)(2x - 3)$

19.  $8x^2 + 14x + 5$

$(2x + 1)(4x + 5)$

20.  $2x^2 + 7x + 5$

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

# Factoring Quadratic Expressions (G)

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

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

Factor each expression.

1.  $8x^2 - 45x + 25$

11.  $9x^2 + 12x - 5$

2.  $8x^2 + 10x - 63$

12.  $4x^2 - 23x - 35$

3.  $5x^2 + 38x + 48$

13.  $8x^2 + 53x - 21$

4.  $8x^2 - 46x + 63$

14.  $5x^2 - 31x + 30$

5.  $5x^2 + 48x + 27$

15.  $6x^2 - 49x + 49$

6.  $5x^2 + 4x - 9$

16.  $9x^2 + 2x - 7$

7.  $5x^2 + 9x - 18$

17.  $7x^2 + 13x - 2$

8.  $8x^2 + 45x + 25$

18.  $6x^2 + 31x - 30$

9.  $7x^2 + 6x - 16$

19.  $5x^2 + 22x - 48$

10.  $4x^2 - 13x + 10$

20.  $9x^2 + 41x - 20$

# Factoring Quadratic Expressions (G) Answers

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

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

Factor each expression.

1.  $8x^2 - 45x + 25$

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

2.  $8x^2 + 10x - 63$

$(2x + 7)(4x - 9)$

3.  $5x^2 + 38x + 48$

$(x + 6)(5x + 8)$

4.  $8x^2 - 46x + 63$

$(2x - 7)(4x - 9)$

5.  $5x^2 + 48x + 27$

$(5x + 3)(x + 9)$

6.  $5x^2 + 4x - 9$

$(5x + 9)(x - 1)$

7.  $5x^2 + 9x - 18$

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

8.  $8x^2 + 45x + 25$

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

9.  $7x^2 + 6x - 16$

$(x + 2)(7x - 8)$

10.  $4x^2 - 13x + 10$

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

11.  $9x^2 + 12x - 5$

$(3x + 5)(3x - 1)$

12.  $4x^2 - 23x - 35$

$(x - 7)(4x + 5)$

13.  $8x^2 + 53x - 21$

$(8x - 3)(x + 7)$

14.  $5x^2 - 31x + 30$

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

15.  $6x^2 - 49x + 49$

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

16.  $9x^2 + 2x - 7$

$(9x - 7)(x + 1)$

17.  $7x^2 + 13x - 2$

$(x + 2)(7x - 1)$

18.  $6x^2 + 31x - 30$

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

19.  $5x^2 + 22x - 48$

$(5x - 8)(x + 6)$

20.  $9x^2 + 41x - 20$

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

# Factoring Quadratic Expressions (H)

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

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

Factor each expression.

1.  $8x^2 + 47x + 35$

11.  $6x^2 + 37x + 35$

2.  $6x^2 + 13x - 28$

12.  $6x^2 - 31x + 5$

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

13.  $9x^2 + 45x + 56$

4.  $6x^2 + 7x + 2$

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

5.  $8x^2 - 57x - 56$

15.  $9x^2 - 40x - 25$

6.  $9x^2 - 12x - 5$

16.  $2x^2 - 13x - 24$

7.  $4x^2 - 25$

17.  $9x^2 + 65x - 56$

8.  $8x^2 + 30x - 27$

18.  $9x^2 - 74x + 16$

9.  $8x^2 + 14x + 5$

19.  $6x^2 + 7x + 1$

10.  $6x^2 + 7x - 5$

20.  $8x^2 - 46x + 63$

# Factoring Quadratic Expressions (H) Answers

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

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

Factor each expression.

1.  $8x^2 + 47x + 35$

$(8x + 7)(x + 5)$

2.  $6x^2 + 13x - 28$

$(3x - 4)(2x + 7)$

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

$(x - 5)(3x + 2)$

4.  $6x^2 + 7x + 2$

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

5.  $8x^2 - 57x - 56$

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

6.  $9x^2 - 12x - 5$

$(3x - 5)(3x + 1)$

7.  $4x^2 - 25$

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

8.  $8x^2 + 30x - 27$

$(2x + 9)(4x - 3)$

9.  $8x^2 + 14x + 5$

$(2x + 1)(4x + 5)$

10.  $6x^2 + 7x - 5$

$(3x + 5)(2x - 1)$

11.  $6x^2 + 37x + 35$

$(6x + 7)(x + 5)$

12.  $6x^2 - 31x + 5$

$(6x - 1)(x - 5)$

13.  $9x^2 + 45x + 56$

$(3x + 7)(3x + 8)$

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

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

15.  $9x^2 - 40x - 25$

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

16.  $2x^2 - 13x - 24$

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

17.  $9x^2 + 65x - 56$

$(9x - 7)(x + 8)$

18.  $9x^2 - 74x + 16$

$(x - 8)(9x - 2)$

19.  $6x^2 + 7x + 1$

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

20.  $8x^2 - 46x + 63$

$(4x - 9)(2x - 7)$



# Factoring Quadratic Expressions (I)

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

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

Factor each expression.

1.  $8x^2 - 10x - 3$

11.  $4x^2 - 19x + 12$

2.  $2x^2 - 17x + 30$

12.  $2x^2 - 11x + 15$

3.  $9x^2 - 44x + 32$

13.  $8x^2 + 34x - 9$

4.  $6x^2 + 43x + 72$

14.  $7x^2 - 39x - 18$

5.  $8x^2 - 15x - 2$

15.  $4x^2 - 24x + 27$

6.  $9x^2 + 53x + 40$

16.  $8x^2 + 34x + 35$

7.  $8x^2 + 42x + 27$

17.  $8x^2 + 31x - 45$

8.  $4x^2 + x - 5$

18.  $7x^2 - 29x + 24$

9.  $8x^2 + 3x - 5$

19.  $2x^2 + 9x - 35$

10.  $8x^2 + 31x + 21$

20.  $8x^2 + 73x + 72$

# Factoring Quadratic Expressions (I) Answers

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

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

Factor each expression.

1.  $8x^2 - 10x - 3$

$(2x - 3)(4x + 1)$

2.  $2x^2 - 17x + 30$

$(x - 6)(2x - 5)$

3.  $9x^2 - 44x + 32$

$(x - 4)(9x - 8)$

4.  $6x^2 + 43x + 72$

$(2x + 9)(3x + 8)$

5.  $8x^2 - 15x - 2$

$(x - 2)(8x + 1)$

6.  $9x^2 + 53x + 40$

$(9x + 8)(x + 5)$

7.  $8x^2 + 42x + 27$

$(2x + 9)(4x + 3)$

8.  $4x^2 + x - 5$

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

9.  $8x^2 + 3x - 5$

$(x + 1)(8x - 5)$

10.  $8x^2 + 31x + 21$

$(8x + 7)(x + 3)$

11.  $4x^2 - 19x + 12$

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

12.  $2x^2 - 11x + 15$

$(2x - 5)(x - 3)$

13.  $8x^2 + 34x - 9$

$(2x + 9)(4x - 1)$

14.  $7x^2 - 39x - 18$

$(7x + 3)(x - 6)$

15.  $4x^2 - 24x + 27$

$(2x - 9)(2x - 3)$

16.  $8x^2 + 34x + 35$

$(2x + 5)(4x + 7)$

17.  $8x^2 + 31x - 45$

$(x + 5)(8x - 9)$

18.  $7x^2 - 29x + 24$

$(x - 3)(7x - 8)$

19.  $2x^2 + 9x - 35$

$(x + 7)(2x - 5)$

20.  $8x^2 + 73x + 72$

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

# Factoring Quadratic Expressions (J)

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

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

Factor each expression.

1.  $7x^2 - 33x - 10$

11.  $6x^2 + 23x + 20$

2.  $3x^2 + 2x - 21$

12.  $8x^2 + 47x - 63$

3.  $6x^2 + 35x + 36$

13.  $2x^2 - 5x - 3$

4.  $6x^2 - x - 35$

14.  $8x^2 - 6x - 35$

5.  $6x^2 + 23x + 7$

15.  $6x^2 + 17x + 5$

6.  $5x^2 - 17x + 6$

16.  $9x^2 - 34x + 21$

7.  $8x^2 - 14x + 3$

17.  $7x^2 - 37x - 30$

8.  $4x^2 - 4x - 63$

18.  $3x^2 - 7x - 40$

9.  $3x^2 + 8x - 16$

19.  $7x^2 + 48x - 7$

10.  $8x^2 - 73x + 72$

20.  $9x^2 + 2x - 7$

# Factoring Quadratic Expressions (J) Answers

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

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

Factor each expression.

1.  $7x^2 - 33x - 10$

$(x - 5)(7x + 2)$

2.  $3x^2 + 2x - 21$

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

3.  $6x^2 + 35x + 36$

$(2x + 9)(3x + 4)$

4.  $6x^2 - x - 35$

$(2x - 5)(3x + 7)$

5.  $6x^2 + 23x + 7$

$(3x + 1)(2x + 7)$

6.  $5x^2 - 17x + 6$

$(x - 3)(5x - 2)$

7.  $8x^2 - 14x + 3$

$(2x - 3)(4x - 1)$

8.  $4x^2 - 4x - 63$

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

9.  $3x^2 + 8x - 16$

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

10.  $8x^2 - 73x + 72$

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

11.  $6x^2 + 23x + 20$

$(3x + 4)(2x + 5)$

12.  $8x^2 + 47x - 63$

$(x + 7)(8x - 9)$

13.  $2x^2 - 5x - 3$

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

14.  $8x^2 - 6x - 35$

$(4x + 7)(2x - 5)$

15.  $6x^2 + 17x + 5$

$(3x + 1)(2x + 5)$

16.  $9x^2 - 34x + 21$

$(x - 3)(9x - 7)$

17.  $7x^2 - 37x - 30$

$(7x + 5)(x - 6)$

18.  $3x^2 - 7x - 40$

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

19.  $7x^2 + 48x - 7$

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

20.  $9x^2 + 2x - 7$

$(x + 1)(9x - 7)$