

# Factoring Quadratic Expressions (A)

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

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

Factor each expression.

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

11.  $3x^2 - 20x - 32$

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

12.  $3x^2 - 11x - 4$

3.  $4x^2 + 15x - 54$

13.  $2x^2 + 23x + 63$

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

14.  $3x^2 - 20x - 7$

5.  $4x^2 - 81$

15.  $2x^2 + 21x + 27$

6.  $3x^2 - 25x + 8$

16.  $4x^2 - 25x + 25$

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

17.  $4x^2 - 5x - 6$

8.  $3x^2 - 19x + 20$

18.  $4x^2 - 16x - 9$

9.  $4x^2 - 4x - 63$

19.  $4x^2 + 20x + 9$

10.  $3x^2 + 19x + 6$

20.  $2x^2 + 21x + 40$

# Factoring Quadratic Expressions (A) Answers

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

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

Factor each expression.

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

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

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

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

3.  $4x^2 + 15x - 54$

$(4x - 9)(x + 6)$

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

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

5.  $4x^2 - 81$

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

6.  $3x^2 - 25x + 8$

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

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

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

8.  $3x^2 - 19x + 20$

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

9.  $4x^2 - 4x - 63$

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

10.  $3x^2 + 19x + 6$

$(x + 6)(3x + 1)$

11.  $3x^2 - 20x - 32$

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

12.  $3x^2 - 11x - 4$

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

13.  $2x^2 + 23x + 63$

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

14.  $3x^2 - 20x - 7$

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

15.  $2x^2 + 21x + 27$

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

16.  $4x^2 - 25x + 25$

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

17.  $4x^2 - 5x - 6$

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

18.  $4x^2 - 16x - 9$

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

19.  $4x^2 + 20x + 9$

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

20.  $2x^2 + 21x + 40$

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