

# Factoring Quadratic Expressions (I)

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

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

Factor each expression.

1.  $3x^2 + 26x + 16$

11.  $2x^2 - 23x + 56$

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

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

3.  $2x^2 - 13x + 6$

13.  $4x^2 + 25x + 36$

4.  $4x^2 + 27x + 35$

14.  $3x^2 + 16x + 21$

5.  $3x^2 + x - 24$

15.  $4x^2 - 9x + 5$

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

16.  $3x^2 + 11x + 10$

7.  $3x^2 + 11x + 6$

17.  $4x^2 - 31x - 45$

8.  $2x^2 - 7x - 9$

18.  $4x^2 - 27x + 35$

9.  $3x^2 + 32x + 64$

19.  $3x^2 - 17x - 6$

10.  $4x^2 - 21x + 20$

20.  $4x^2 - 29x - 63$

# Factoring Quadratic Expressions (I) Answers

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

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

Factor each expression.

1.  $3x^2 + 26x + 16$

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

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

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

3.  $2x^2 - 13x + 6$

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

4.  $4x^2 + 27x + 35$

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

5.  $3x^2 + x - 24$

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

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

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

7.  $3x^2 + 11x + 6$

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

8.  $2x^2 - 7x - 9$

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

9.  $3x^2 + 32x + 64$

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

10.  $4x^2 - 21x + 20$

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

11.  $2x^2 - 23x + 56$

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

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

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

13.  $4x^2 + 25x + 36$

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

14.  $3x^2 + 16x + 21$

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

15.  $4x^2 - 9x + 5$

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

16.  $3x^2 + 11x + 10$

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

17.  $4x^2 - 31x - 45$

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

18.  $4x^2 - 27x + 35$

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

19.  $3x^2 - 17x - 6$

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

20.  $4x^2 - 29x - 63$

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