

# Factoring Quadratic Expressions (E)

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

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

Factor each expression.

1.  $56x^2 - 113x + 56$

11.  $9x^2 - 50x + 25$

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

12.  $9x^2 + 33x + 28$

3.  $2x^2 - 11x - 21$

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

4.  $35x^2 + 68x + 9$

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

5.  $36x^2 - 85x + 9$

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

6.  $25x^2 + 65x + 36$

16.  $10x^2 + 27x + 18$

7.  $40x^2 - 9x - 9$

17.  $3x^2 - 23x + 40$

8.  $72x^2 - 73x - 9$

18.  $6x^2 - 19x + 10$

9.  $32x^2 + 4x - 15$

19.  $9x^2 - 59x - 28$

10.  $18x^2 - 79x - 9$

20.  $15x^2 + 14x - 8$

# Factoring Quadratic Expressions (E) Answers

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

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

Factor each expression.

1.  $56x^2 - 113x + 56$

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

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

$(2x + 1)(x + 6)$

3.  $2x^2 - 11x - 21$

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

4.  $35x^2 + 68x + 9$

$(5x + 9)(7x + 1)$

5.  $36x^2 - 85x + 9$

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

6.  $25x^2 + 65x + 36$

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

7.  $40x^2 - 9x - 9$

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

8.  $72x^2 - 73x - 9$

$(9x + 1)(8x - 9)$

9.  $32x^2 + 4x - 15$

$(4x + 3)(8x - 5)$

10.  $18x^2 - 79x - 9$

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

11.  $9x^2 - 50x + 25$

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

12.  $9x^2 + 33x + 28$

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

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

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

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

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

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

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

16.  $10x^2 + 27x + 18$

$(2x + 3)(5x + 6)$

17.  $3x^2 - 23x + 40$

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

18.  $6x^2 - 19x + 10$

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

19.  $9x^2 - 59x - 28$

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

20.  $15x^2 + 14x - 8$

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