

# Factoring Quadratic Expressions (H)

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

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

Factor each expression.

1.  $72x^2 + 71x + 7$

11.  $9x^2 - 64x + 7$

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

12.  $18x^2 - 19x + 5$

3.  $36x^2 - 71x + 14$

13.  $18x^2 + 79x + 56$

4.  $64x^2 - 64x - 9$

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

5.  $28x^2 - 81x + 56$

15.  $56x^2 - 25x - 4$

6.  $5x^2 - 11x + 2$

16.  $6x^2 - x - 35$

7.  $12x^2 - 35x + 25$

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

8.  $36x^2 - 12x - 35$

18.  $8x^2 + 25x + 3$

9.  $30x^2 + 19x - 5$

19.  $72x^2 - 35x + 3$

10.  $20x^2 - 19x - 28$

20.  $42x^2 + 55x + 7$

# Factoring Quadratic Expressions (H) Answers

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

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

Factor each expression.

1.  $72x^2 + 71x + 7$

$(9x + 1)(8x + 7)$

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

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

3.  $36x^2 - 71x + 14$

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

4.  $64x^2 - 64x - 9$

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

5.  $28x^2 - 81x + 56$

$(7x - 8)(4x - 7)$

6.  $5x^2 - 11x + 2$

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

7.  $12x^2 - 35x + 25$

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

8.  $36x^2 - 12x - 35$

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

9.  $30x^2 + 19x - 5$

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

10.  $20x^2 - 19x - 28$

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

11.  $9x^2 - 64x + 7$

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

12.  $18x^2 - 19x + 5$

$(9x - 5)(2x - 1)$

13.  $18x^2 + 79x + 56$

$(9x + 8)(2x + 7)$

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

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

15.  $56x^2 - 25x - 4$

$(7x - 4)(8x + 1)$

16.  $6x^2 - x - 35$

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

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

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

18.  $8x^2 + 25x + 3$

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

19.  $72x^2 - 35x + 3$

$(9x - 1)(8x - 3)$

20.  $42x^2 + 55x + 7$

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