

# Factoring Quadratic Expressions (G)

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

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

Factor each expression.

1.  $96x^2 - 92x + 20$

11.  $36x^2 + 112x + 12$

2.  $75x^2 + 235x + 180$

12.  $128x^2 - 112x + 12$

3.  $120x^2 + 175x - 245$

13.  $81x^2 - 180x + 75$

4.  $-70x^2 + 45x + 90$

14.  $2x^2 + 4x - 16$

5.  $-15x^2 + 78x - 15$

15.  $-189x^2 - 300x - 96$

6.  $-162x^2 - 117x - 15$

16.  $-48x^2 - 44x + 70$

7.  $-8x^2 + 54x - 36$

17.  $-35x^2 - 60x + 135$

8.  $-45x^2 - 250x - 125$

18.  $108x^2 + 240x + 128$

9.  $-84x^2 - 110x - 16$

19.  $147x^2 - 63x - 12$

10.  $80x^2 + 350x - 45$

20.  $126x^2 - 152x + 42$

# Factoring Quadratic Expressions (G) Answers

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

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

Factor each expression.

1.  $96x^2 - 92x + 20$

$4(8x - 5)(3x - 1)$

2.  $75x^2 + 235x + 180$

$5(3x + 4)(5x + 9)$

3.  $120x^2 + 175x - 245$

$5(8x - 7)(3x + 7)$

4.  $-70x^2 + 45x + 90$

$-5(2x - 3)(7x + 6)$

5.  $-15x^2 + 78x - 15$

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

6.  $-162x^2 - 117x - 15$

$-3(6x + 1)(9x + 5)$

7.  $-8x^2 + 54x - 36$

$-2(x - 6)(4x - 3)$

8.  $-45x^2 - 250x - 125$

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

9.  $-84x^2 - 110x - 16$

$-2(7x + 8)(6x + 1)$

10.  $80x^2 + 350x - 45$

$5(8x - 1)(2x + 9)$

11.  $36x^2 + 112x + 12$

$4(9x + 1)(x + 3)$

12.  $128x^2 - 112x + 12$

$4(4x - 3)(8x - 1)$

13.  $81x^2 - 180x + 75$

$3(3x - 5)(9x - 5)$

14.  $2x^2 + 4x - 16$

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

15.  $-189x^2 - 300x - 96$

$-3(9x + 4)(7x + 8)$

16.  $-48x^2 - 44x + 70$

$-2(6x - 5)(4x + 7)$

17.  $-35x^2 - 60x + 135$

$-5(x + 3)(7x - 9)$

18.  $108x^2 + 240x + 128$

$4(3x + 4)(9x + 8)$

19.  $147x^2 - 63x - 12$

$3(7x + 1)(7x - 4)$

20.  $126x^2 - 152x + 42$

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