

# Factoring Quadratic Expressions (H)

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

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

Factor each expression.

1.  $160x^2 + 68x - 48$

11.  $-98x^2 - 112x - 24$

2.  $-14x^2 - 130x - 144$

12.  $-162x^2 - 207x - 21$

3.  $96x^2 - 76x - 42$

13.  $-225x^2 - 485x - 200$

4.  $-112x^2 + 236x + 36$

14.  $180x^2 + 385x + 200$

5.  $18x^2 - 75x - 75$

15.  $-48x^2 + 30x + 27$

6.  $40x^2 + 155x - 20$

16.  $-48x^2 + 44x - 6$

7.  $45x^2 - 65x + 20$

17.  $360x^2 + 505x + 175$

8.  $-18x^2 - 8x + 10$

18.  $112x^2 - 102x + 20$

9.  $70x^2 + 2x - 24$

19.  $224x^2 - 284x + 32$

10.  $192x^2 + 152x + 20$

20.  $144x^2 + 102x - 21$

# Factoring Quadratic Expressions (H) Answers

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

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

Factor each expression.

1.  $160x^2 + 68x - 48$

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

2.  $-14x^2 - 130x - 144$

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

3.  $96x^2 - 76x - 42$

$2(6x - 7)(8x + 3)$

4.  $-112x^2 + 236x + 36$

$-4(4x - 9)(7x + 1)$

5.  $18x^2 - 75x - 75$

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

6.  $40x^2 + 155x - 20$

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

7.  $45x^2 - 65x + 20$

$5(x - 1)(9x - 4)$

8.  $-18x^2 - 8x + 10$

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

9.  $70x^2 + 2x - 24$

$2(7x - 4)(5x + 3)$

10.  $192x^2 + 152x + 20$

$4(8x + 5)(6x + 1)$

11.  $-98x^2 - 112x - 24$

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

12.  $-162x^2 - 207x - 21$

$-3(6x + 7)(9x + 1)$

13.  $-225x^2 - 485x - 200$

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

14.  $180x^2 + 385x + 200$

$5(9x + 8)(4x + 5)$

15.  $-48x^2 + 30x + 27$

$-3(8x - 9)(2x + 1)$

16.  $-48x^2 + 44x - 6$

$-2(4x - 3)(6x - 1)$

17.  $360x^2 + 505x + 175$

$5(9x + 7)(8x + 5)$

18.  $112x^2 - 102x + 20$

$2(7x - 2)(8x - 5)$

19.  $224x^2 - 284x + 32$

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

20.  $144x^2 + 102x - 21$

$3(6x - 1)(8x + 7)$