

# Factoring Quadratic Expressions (I)

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

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

Factor each expression.

1.  $-8x^2 + 66x - 70$

11.  $-9x^2 - 6x + 48$

2.  $-20x^2 + 5$

12.  $8x^2 + 44x - 84$

3.  $15x^2 - 115x - 180$

13.  $-16x^2 - 100x - 24$

4.  $-16x^2 - 32x + 180$

14.  $15x^2 - 145x + 200$

5.  $-10x^2 - 55x - 25$

15.  $16x^2 - 112x + 180$

6.  $-9x^2 + 69x + 24$

16.  $-15x^2 + 40x + 175$

7.  $-16x^2 + 68x - 16$

17.  $8x^2 + 20x - 12$

8.  $-8x^2 - 42x - 10$

18.  $-9x^2 - 42x + 147$

9.  $-12x^2 - 81x + 120$

19.  $-6x^2 - 32x - 32$

10.  $-16x^2 + 96x - 140$

20.  $-6x^2 + 3x + 63$

# Factoring Quadratic Expressions (I) Answers

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

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

Factor each expression.

1.  $-8x^2 + 66x - 70$

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

2.  $-20x^2 + 5$

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

3.  $15x^2 - 115x - 180$

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

4.  $-16x^2 - 32x + 180$

$-4(2x - 5)(2x + 9)$

5.  $-10x^2 - 55x - 25$

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

6.  $-9x^2 + 69x + 24$

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

7.  $-16x^2 + 68x - 16$

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

8.  $-8x^2 - 42x - 10$

$-2(4x + 1)(x + 5)$

9.  $-12x^2 - 81x + 120$

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

10.  $-16x^2 + 96x - 140$

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

11.  $-9x^2 - 6x + 48$

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

12.  $8x^2 + 44x - 84$

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

13.  $-16x^2 - 100x - 24$

$-4(4x + 1)(x + 6)$

14.  $15x^2 - 145x + 200$

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

15.  $16x^2 - 112x + 180$

$4(2x - 5)(2x - 9)$

16.  $-15x^2 + 40x + 175$

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

17.  $8x^2 + 20x - 12$

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

18.  $-9x^2 - 42x + 147$

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

19.  $-6x^2 - 32x - 32$

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

20.  $-6x^2 + 3x + 63$

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