

## Factoring Quadratic Expressions (B)

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

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

Factor each expression.

1.  $-3x^2 + 20x + 32$

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

2.  $9x^2 + 24x + 16$

12.  $4x^2 + 4x - 63$

3.  $-6x^2 + 17x + 3$

13.  $4x^2 + 4x - 3$

4.  $6x^2 + 7x - 10$

14.  $-7x^2 - 13x - 6$

5.  $7x^2 + 54x + 35$

15.  $-8x^2 + 43x + 30$

6.  $-6x^2 + 43x - 7$

16.  $-7x^2 - 16x - 9$

7.  $6x^2 + 17x + 12$

17.  $-6x^2 - 19x - 14$

8.  $-7x^2 + 11x + 6$

18.  $6x^2 - 13x + 7$

9.  $-3x^2 + 8x + 3$

19.  $8x^2 + 9x - 14$

10.  $-6x^2 + 5x - 1$

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

# Factoring Quadratic Expressions (B) Answers

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

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

Factor each expression.

1.  $-3x^2 + 20x + 32$

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

2.  $9x^2 + 24x + 16$

$(3x + 4)(3x + 4) = (3x + 4)^2$

3.  $-6x^2 + 17x + 3$

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

4.  $6x^2 + 7x - 10$

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

5.  $7x^2 + 54x + 35$

$(7x + 5)(x + 7)$

6.  $-6x^2 + 43x - 7$

$-(x - 7)(6x - 1)$

7.  $6x^2 + 17x + 12$

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

8.  $-7x^2 + 11x + 6$

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

9.  $-3x^2 + 8x + 3$

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

10.  $-6x^2 + 5x - 1$

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

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

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

12.  $4x^2 + 4x - 63$

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

13.  $4x^2 + 4x - 3$

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

14.  $-7x^2 - 13x - 6$

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

15.  $-8x^2 + 43x + 30$

$-(x - 6)(8x + 5)$

16.  $-7x^2 - 16x - 9$

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

17.  $-6x^2 - 19x - 14$

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

18.  $6x^2 - 13x + 7$

$(6x - 7)(x - 1)$

19.  $8x^2 + 9x - 14$

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

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

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