

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

# Factoring $ax^2 + bx + c$ expressions

Factor each expression.

1  $2x^2 + 11x + 5$

\_\_\_\_\_

3  $6x^2 + 21x + 15$

\_\_\_\_\_

5  $6x^2 - 11x - 10$

\_\_\_\_\_

7  $4x^2 + 26x + 30$

\_\_\_\_\_

9  $7x^2 - 46x - 21$

\_\_\_\_\_

2  $x^2 - 4x + 24$

\_\_\_\_\_

4  $16x^2 - 54x + 35$

\_\_\_\_\_

6  $12x^2 + 17x - 5$

\_\_\_\_\_

8  $-6x^2 - 25x - 25$

\_\_\_\_\_

10  $x^2 - 4x - 12$

\_\_\_\_\_

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

# Factoring $ax^2 + bx + c$ expressions

## Answers

1  $2x^2 + 11x + 5$

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

3  $6x^2 + 21x + 15$

$3(2x + 5)(x + 1)$

5  $6x^2 - 11x - 10$

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

7  $4x^2 + 26x + 30$

$2(2y + 3)(y + 5)$

9  $7x^2 - 46x - 21$

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

2  $x^2 - 4x + 24$

Not factorable

4  $16x^2 - 54x + 35$

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

6  $12x^2 + 17x - 5$

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

8  $-6x^2 - 25x - 25$

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

10  $x^2 - 4x - 12$

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