

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

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

# Factoring Practice Worksheet

Factor the given expressions.

1)  $25 - x^2$

\_\_\_\_\_

2)  $4a^3 - 49a$

\_\_\_\_\_

3)  $x^3 - 27$

\_\_\_\_\_

4)  $4x^2 - 25$

\_\_\_\_\_

5)  $9x^2 - 1$

\_\_\_\_\_

6)  $5x^2 - 45y^2$

\_\_\_\_\_

7)  $49x^2 - 14x + 1$

\_\_\_\_\_

8)  $b^2 + 2b + 1$

\_\_\_\_\_

9)  $3b^3 - 5b^2 + 2b$

\_\_\_\_\_

10)  $x^2 + 7x + 10$

\_\_\_\_\_

11)  $x^2 - x - 20$

\_\_\_\_\_

12)  $2x^2 - 5x - 3$

\_\_\_\_\_

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# Factoring Practice Worksheet

## Answers

1)  $25 - x^2$

2)  $4a^3 - 49a$

3)  $x^3 - 27$

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

$a(2a + 7)(2a - 7)$

$(x - 3)(x^2 + 3x + 9)$

4)  $4x^2 - 25$

5)  $9x^2 - 1$

6)  $5x^2 - 45y^2$

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

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

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

7)  $49x^2 - 14x + 1$

8)  $b^2 + 2b + 1$

9)  $3b^3 - 5b^2 + 2b$

$(7x - 1)^2$

$(b + 1)^2$

$b(3b - 2)(b - 1)$

10)  $x^2 + 7x + 10$

11)  $x^2 - x - 20$

12)  $2x^2 - 5x - 3$

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

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

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