

Name: _____

Date Started: _____ Date Completed: _____ Score: _____

Learning Activity Sheet
Factoring the Difference of Two Squares

A. Choose the letter of the correct answer.

1. Which of the following is a difference of two squares?
 - a. $x^2 + (-y)^2$
 - b. $-81 - 4x^2$
 - c. $-x^6 + 121$
 - d. $x^4 - 12x^2y^2$
2. Which of the following is a difference of two squares?
 - a. $-x^4 + 64$
 - b. $-36 - 9x^2$
 - c. $4x^4 + (-2y)^2$
 - d. $x^2 - 15x^4y^2$

B. Factor each expression.

State whether or not each expression is a difference of two squares.

1. $4x^2 - 121$
2. $-49m^2 + 1$

Factor each completely.

3. $9a^2 - 49$
4. $64x^2 - 25y^4$

Factor each completely.

5. $28x^3 - 7x$
6. $128 - 200m^2$

Factor each completely.

7. $1 - 16x^8$
8. $a^4 - 625b^8$