

Lessons 10.1, 10.2, and 10.3 Review Worksheet

Name: _____

Date: _____ Hour: _____

- 1.) Write the product using exponents

$$0.3 \cdot 0.3 \cdot 0.3 \cdot 0.3 \cdot x \cdot x$$

- 2.) Evaluate the expression

$$(-2)^4$$

- 3.) Evaluate the expression

$$-2^4$$

- 4.) Evaluate the expression

$$9 - 2^5 \cdot 0.5$$

- 5.) Evaluate the expression

$$|-3^3 \div 27|$$

- 6.) Simplify the expression

$$6^2 \cdot 6^4$$

- 7.) Simplify the expression

$$z \cdot z^{12}$$

- 8.) Simplify the expression

$$(y^2)^4$$

- 9.) Simplify the expression

$$((-4)^3)^2$$

- 10.) Simplify the expression

$$(5y)^4$$

- 11.) Simplify the expression

$$(ab)^5$$

- 12.) Simplify the expression. Write your answer as a power.

$$\frac{(-8)^8}{(-8)^4}$$

- 13.) Simplify the expression. Write your answer as a power.

$$\frac{x^8}{x^3}$$

- 14.) Simplify the expression. Write your answer as a power.

$$\frac{2^{15}}{2^3 \cdot 2^5}$$

- 15.) Simplify the expression. Write your answer as a power.

$$\frac{d^5}{d} \cdot \frac{d^9}{d^8}$$

- 16.) Simplify the expression. Write your answer as a power.

$$\frac{x^{15}y^9}{x^8y^3}$$