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Simplifying exponential expressions worksheet- 4

1. Which of the following is equivalent to $\frac{a^8 - b^8}{(a^4 + b^4)(a^2 + b^2)}$?
- $a^4 - b^4$
 - $a^4 + b^4$
 - $a^2 - b^2$
 - $a^2 + b^2$
2. Find the value of $(216^5)^{\frac{1}{3}}$ and express the answer as an exponent.
3. Express the following numbers in the standard form.
- 5×10^{-5}
 - 3.42×10^4
4. The area occupied by a certain type of bacteria is 0.000000006 square meters. Find the area occupied by 100 such bacteria and express your answer in scientific notation.
5. Simplify $(3.2 \times 10^{-4}) - (15.2 \times 10^{-7})$ and express the answer in scientific notation.
6. Simplify $(8.3 \times 10^{-3}) \times (3.2 \times 10^{-5})$ and express the answer in scientific notation.
7. Simplify the following:
- $(3^0 - 5^0) \div (4^0 + 2^0)$
 - $x^0 \times y^0$

8. The revenue function of a retail store is modelled by the equation $R = 0.3x^3 + 5$ (in hundreds of dollars), where x is the number of years after it is opened. Find the revenue earned in 5 years.

9. Use the properties of exponents to simplify the following. Write the answers in terms of positive exponents.

a. $(-3)^5 \div (-3)^8$

b. $(2^{-7} \div 2^{-10}) \times 2^{-5}$

10. Simplify the following using multiple properties of exponents and express the answer as a number.

$$\frac{(-5)^7}{(-5)^2} \cdot \frac{(-5)^3}{(-5)^8}$$

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