

Chapter 8 Test REVIEW

Talley

Name:

9. Simplify

$$(4m^5)^{-6} \cdot (mn)^8$$

$$\frac{4^{-6} m^{-30} n^8}{4^{-6} m^{-22} n^8}$$

$$\frac{n^8}{4096 m^{22}}$$

Solution

11. Simplify

$$\frac{10^7}{10^3} = 10^4$$

$$\text{Solution } 10000$$

Solution

12. Simplify

$$\frac{a^{10} b}{a^6 b^2}$$

$$a^4 b^{-1}$$

$$a^4 / b^1$$

Solution

14. Simplify

$$\frac{b^9}{b^3}$$

$$b^6$$

$$b^6$$

Solution

15. Simplify

$$\left(\frac{4}{5}\right)^{-3} = \frac{4^{-3}}{5^{-3}} = \frac{5^3}{4^3} = \frac{125}{64}$$

Solution

$$125/64$$

$$10^2/5^1$$

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1. Simplify $4s^{-8}t$	Solution $\frac{4t}{s^8}$
2. Simplify $(-10)^0$	Solution 1
3. Evaluate the expression for $n = -2$ and $w = 4$ $\frac{n^{-1}}{w^2}$ $\frac{1}{n^1 w^2} = \frac{1}{(-2)(4)^2} =$	Solution $-\frac{1}{32}$
5. Simplify $5x^9 \cdot 6x^{-8}$ $30x^1$	Solution $30x$
6. Simplify $4x^{-10} \cdot 6x^6$ $24x^{-4}$	Solution $\frac{24}{x^4}$
7. Simplify $(a^4)^{10}$	Solution a^{40}
8. Simplify $(3g^2)^{-5}$ $3^{-5} g^{-10}$ $\frac{1}{3^5 g^{10}}$	Solution $\frac{1}{243g^{10}}$