

Math Sheet

Name _____ Score _____ / 14 Teacher _____ Date _____

Multiply Powers

Combine like bases and write positive exponents.

1. $4^2 \cdot 4^{-4}$

2. $\left(\frac{4}{7}\right)^{-6} \cdot \left(\frac{4}{7}\right)^3 \cdot \left(\frac{4}{7}\right)^{-2}$

3. $y^2 \cdot y^{-2}$

Domain: real variables $y \in \mathbb{R}$ $y \neq 0$

4. $9^{-1} \cdot 9^5 \cdot 9^{-4}$

5. $\left(\frac{1}{3}\right)^2 \cdot \left(\frac{1}{3}\right)^{-1}$

6. $x^{-3} \cdot x \cdot x^{-1}$

Domain: real variables $x \in \mathbb{R}$ $x \neq 0$

7. $5^2 \cdot 5^{-4}$

8. $\left(\frac{1}{6}\right)^{-3} \cdot \frac{1}{6} \cdot \left(\frac{1}{6}\right)^{-4}$

9. $y \cdot y^{-5}$

Domain: real variables $y \in \mathbb{R}$ $y \neq 0$

10. $2^{-4} \cdot 2^3 \cdot 2^{-1}$

11. $\left(\frac{1}{2}\right)^2 \cdot \left(\frac{1}{2}\right)^{-6}$

12. $x^{-4} \cdot x \cdot x^{-4}$

Domain: real variables $x \in \mathbb{R}$ $x \neq 0$

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13. $7 \cdot 7^{-6}$

14. $\left(\frac{5}{6}\right)^{-4} \cdot \left(\frac{5}{6}\right)^2 \cdot \left(\frac{5}{6}\right)^{-6}$
