

Math Sheet

Name _____ Score _____ / 12 Teacher _____ Date _____

Product and Quotient Powers

Apply outer powers to products and quotients.

1. 3^3

2. $\left(\frac{8 \cdot x^{-2}}{7 \cdot z^6} \right)^4$

Domain: real variables $x \neq 0$ $z \neq 0$

3. $\left(5 \cdot y \cdot z^{-3} \right)^3$

Domain: real variables $z \neq 0$

4. $\left(\frac{2 \cdot x^{-2}}{7 \cdot z^2} \right)^5$

Domain: real variables $x \neq 0$ $z \neq 0$

5. $\left(7 \cdot y^6 \right)^4$

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

Domain: real variables $x \neq 0$ $z \neq 0$

7. 4^3

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

Domain: real variables $x \neq 0$ $z \neq 0$

9. $\left(5 \cdot y^6 \cdot z^{-1} \right)^3$

Domain: real variables $z \neq 0$

10. $\left(\frac{3 \cdot x^{-6}}{1 \cdot z^2} \right)^5$

Domain: real variables $x \neq 0$ $z \neq 0$

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Product and Quotient Powers

Apply outer powers to products and quotients.

11. $(8 \cdot y^5)^3$

12. $\left(\frac{5 \cdot x^{-5}}{4 \cdot z} \right)^3$

Domain: real variables $x \neq 0$ $z \neq 0$
