

Math Sheet

Name _____ Score _____ / 12 Teacher _____ Date _____

Power of Quotients

Apply the outer power to numerator and denominator.

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

Domain: real variables $z \neq 0$

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

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

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

Domain: real variables $z \neq 0$

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

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

5.
$$\left(\frac{3 \cdot y^2}{7 \cdot z^{-1}} \right)^3$$

Domain: real variables $z \neq 0$

6.
$$\left(\frac{3 \cdot x^{-2}}{9 \cdot z^5} \right)^4$$

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

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

Domain: real variables $z \neq 0$

8.
$$\left(\frac{1 \cdot x^{-5}}{4 \cdot z^5} \right)^5$$

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

9.
$$\left(\frac{3 \cdot y^4}{1 \cdot z^{-6}} \right)^2$$

Domain: real variables $z \neq 0$

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

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

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Power of Quotients

Apply the outer power to numerator and denominator.

11. $\left(\frac{1 \cdot y^3}{5 \cdot z^{-4}} \right)^3$

Domain: real variables $z \neq 0$

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

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