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Power of a Quotient Rule

Practice Worksheet A

1 Practice Problems

Simplify using the Power of a Quotient Rule.

1) $\left(\frac{3^4}{5^9}\right)^2$

6) $\left(\frac{5^9}{5^5}\right)^2$

2) $\left(\frac{1^3}{4^5}\right)^4$

7) $\left(\frac{x^6}{x^5}\right)^4$

3) $\left(\frac{2^3}{1^9}\right)^2$

8) $\left(\frac{x^2y^2}{2^58^5}\right)^2$

4) $\left(\frac{x^6}{y^3}\right)^7$

9) $\left(\frac{x^4y^9}{x^2y^5}\right)^2$

5) $\left(\frac{x^9}{y^5}\right)^5$

10) $\left(\frac{x^3y^5}{xy}\right)^3$

Power of a Quotient Rule

Practice Worksheet A

1 Practice Problems

Simplify using the Power of a Quotient Rule.

$$1) \left(\frac{3^4}{5^9} \right)^2 \quad \frac{3^8}{5^{18}}$$

$$6) \left(\frac{5^9}{5^5} \right)^2 \quad 5^{18}$$

$$2) \left(\frac{1^3}{4^5} \right)^4 \quad \frac{1^{12}}{4^{20}}$$

$$7) \left(\frac{x^6}{x^5} \right)^4 \quad x^4$$

$$3) \left(\frac{2^3}{1^9} \right)^2 \quad \frac{2^6}{1^{18}}$$

$$8) \left(\frac{x^2 y^2}{2^5 8^5} \right)^2 \quad \frac{x^4 y^4}{2^{10} 8^{10}}$$

$$4) \left(\frac{x^6}{y^3} \right)^7 \quad \frac{9^{40}}{6^{40}}$$

$$9) \left(\frac{x^4 y^9}{x^2 y^5} \right)^2 \quad x^4 y^8$$

$$5) \left(\frac{x^9}{y^5} \right)^5 \quad \frac{x^{45}}{y^{40}}$$

$$10) \left(\frac{x^3 y^5}{xy} \right)^3 \quad x^6 y^{12}$$