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Quotient Rule

Practice Worksheet A

1 Practice Problems

Simplify using the Quotient Rule.

1) $\frac{8^4}{8^2}$

6) $\frac{3^{13}5^7}{3^55^4}$

2) $\frac{9^4}{9}$

7) $\frac{2^79^6}{9^4}$

3) $\frac{7^3}{7^{-7}}$

8) $\frac{4^8}{4^58^3}$

4) $\frac{a^{-1}}{a^{-5}}$

9) $\frac{a^{10}b^6}{a^6b^{-3}}$

5) $\frac{a^{30}}{a^{-5}}$

10) $\frac{xy^5}{xy^{-3}}$

Quotient Rule

Practice Worksheet A

1 Practice Problems

Simplify using the Quotient Rule.

1) $\frac{8^4}{8^2}$ **8^2**

6) $\frac{3^{13}5^7}{3^55^4}$ **3^85^3**

2) $\frac{9^4}{9}$ **9^3**

7) $\frac{2^79^6}{9^4}$ **2^79^2**

3) $\frac{7^3}{7^{-7}}$ **7^{10}**

8) $\frac{4^8}{4^58^3}$ **$\frac{4^3}{8^3}$**

4) $\frac{a^{-1}}{a^{-5}}$ **a^4**

9) $\frac{a^{10}b^6}{a^6b^{-3}}$ **a^4b^9**

5) $\frac{a^{30}}{a^{-5}}$ **a^{35}**

10) $\frac{xy^5}{xy^{-3}}$ **y^8**