

$$4 / \left( \frac{10x^2y^{-2}}{9x^{-3}y^3} \right)^{-2} \left( \frac{2x^{-3}y^8}{3x^{-5}y^6} \right)^3$$

$$\left( \frac{9x^{-3}y^3}{10x^2y^{-2}} \right)^2 \cdot \left( \frac{2x^{-3}y^8}{3x^{-5}y^6} \right)^3$$

$$\frac{81x^{-6}y^6}{100x^4y^{-4}} \cdot \frac{8x^{-9}y^{24}}{27x^{-15}y^{18}}$$

$$= \frac{6x^{-5}y^{30-14}}{25x^{-11}y^{14}}$$

$$= \frac{6y^{16}}{25x^4}$$

$$\frac{81}{100} \cdot \frac{8}{27}$$

$$\frac{4^{-3}}{4^7 \cdot 4^{-5}} = \frac{4^{-3}}{4^{2+3}} = \frac{1}{4^5} = \frac{1}{1024}$$

No Graphing Calc

\* Scientific Notation  
(9-10)

\* 20-24

\* Graphs

$$\frac{4.8 \times 10^3}{(1.2 \times 10^5)(8 \times 10^2)}$$

$$\frac{4.8 \times 10^3}{9.6 \times 10^7}$$

$$1.2a^6 - 8a^2 = 0.5 \times 10^{-4-1}$$

$$\boxed{5 \times 10^{-5}}$$

$$17 \quad \sqrt[6]{p^5 q^2} \cdot \sqrt[6]{p^3 q}$$

$$\sqrt[6]{p^5 q^2} \cdot \sqrt[6]{p^3 q^3}$$

$$= \sqrt[6]{p^{14} q^5}$$

$$p^2 \sqrt[6]{p^2 q^5}$$

Abs value

Even index

Even power inside

Odd power outside

