EXPONENTIAL FUNCTIONS

$$\frac{(a^2b^3)(a^{-5}b^2)^3}{a^{-4}b^2}$$

$$\frac{(a^{2}b^{3})(a^{-15}b^{6})}{a^{-4}b^{2}} / 7^{-2} = \frac{1}{7^{2}} = \frac{1}{49}$$

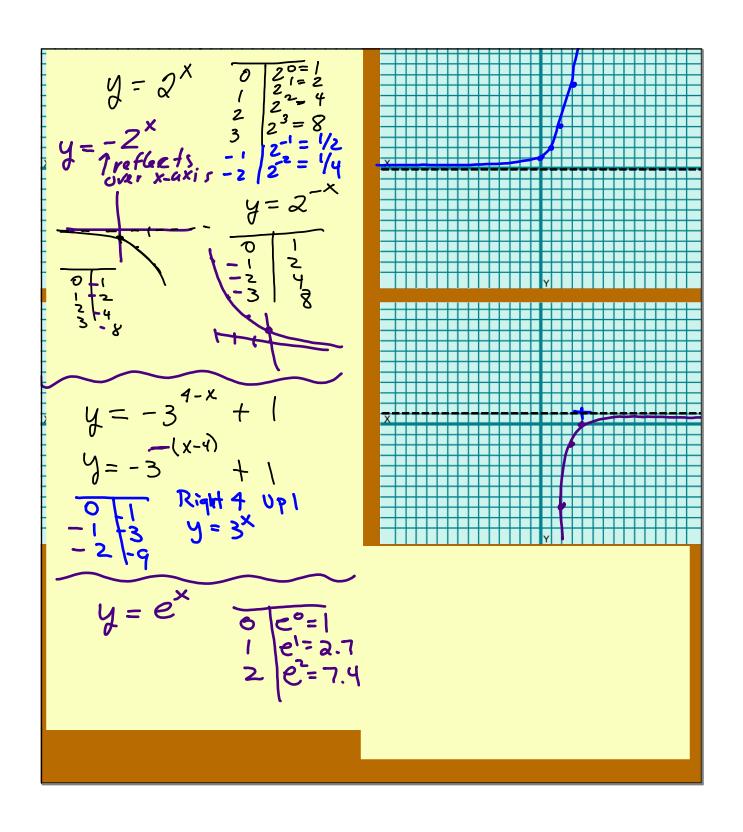
$$\sqrt[5]{4^{2}} = \sqrt[2]{5}$$

$$7^{-2} = \frac{1}{7^2} = \frac{1}{49}$$

$$\sqrt[5]{a^2} = \alpha^{2/5}$$

$$\frac{(4^{-3/2} + 2^{-1})^{-1}}{(\frac{1}{\sqrt[3]{4^{3}}} + \frac{1}{2^{1}})^{-1}}$$

$$\frac{(x+y)^{2}}{(x+y)^{2}}$$



$$C = (1+\frac{1}{n})^{n} \wedge 2.718 \quad \text{Leonard Euler}$$

$$n = 1 \quad (1+\frac{1}{n})^{1} = 2 \quad \text{aes}$$

$$n = 2 \quad (1+\frac{1}{n})^{2} = 2.25 \quad \text{Nature number}$$

$$n = 3 \quad 2.37 \quad 0.12$$

$$n = 4 \quad 2.44 \quad 0.07$$

Compound Interest $A = P(1+\frac{r}{n})^{nt}$ Exponential Growth

(private) $N = N_0 (1 \pm r)^{t}$ End Start N = H of times compounded Monthly n=12 quarkey n=4

