EXPONENTIAL FUNCTIONS

$$\frac{(a^{2}b^{3})(a^{-5}b^{2})^{3}}{a^{-4}b^{2}} \begin{cases} \sqrt[3]{a^{2}} = a^{2/5} \\ \sqrt[4]{a^{2}b^{3}}(a^{-15}b^{6}) \\ \sqrt[4]{a^{-3/2}} + \sqrt[4]{a^{-1}} \\ \sqrt[4]{a^{-4}b^{2}} \\ \sqrt[4]{a^{-4}b^{2}} \end{cases} \begin{cases} \sqrt[4]{a^{-1}} + \sqrt[4]{a^{-1}} \\ \sqrt[4]{a^{-1}} + \sqrt[4]{a^{-1}} + \sqrt[4]{a^{-1}} \\ \sqrt[4]{a^{-1}} + \sqrt[4]{a^{-1}} + \sqrt[4]{a^{-1}} \\ \sqrt[4]{a^{-1}} + \sqrt[4]{$$

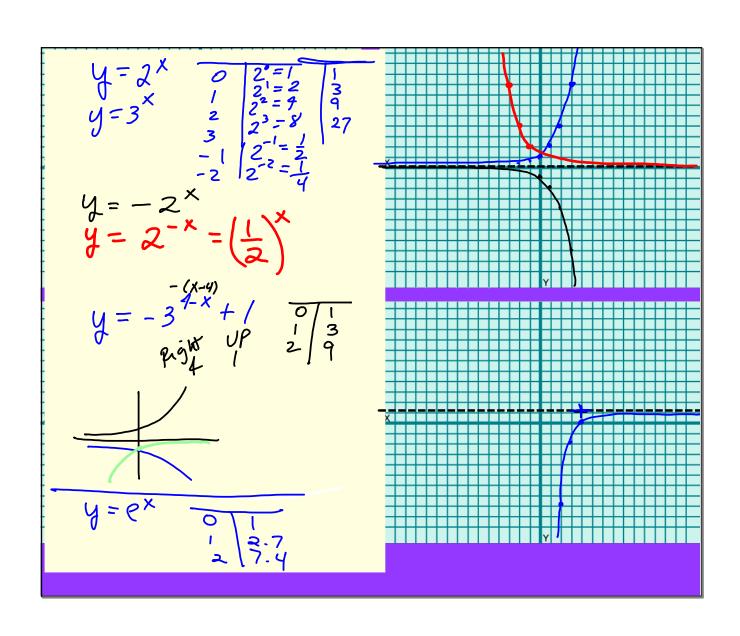
Exponential Functions - constant base variable exponent

$$y = 2 \times \qquad \qquad (\frac{1}{9})^{3} \times (\sqrt[4]{27})^{4/3}$$

$$y = b \times \qquad (\frac{3^{2}}{9})^{3} \times (\sqrt[4]{3^{3}})^{4/3}$$

$$y = -6x \times (\sqrt[4]{3^{3}})^{4/3}$$

$$y = -$$



$$C = \left(1 + \frac{1}{n}\right)^{n} \simeq 2.718$$

$$= 2.25$$

$$n = 3 \quad 2.37$$

$$n = 4 \quad 2.17$$

$$Compound Interest time

$$A = P\left(1 + \frac{1}{n}\right)^{n} = 1$$

$$Expunential Growth
(Business/Human pup)
$$N = N \left(1 + \frac{1}{n}\right)^{n}$$

$$N = N \left(1 + \frac{1}{n}\right)^{n}$$

$$Natural Growth$$

$$Natural Growth
$$Q = Q \circ e^{Kt}$$

$$Q = Q \circ e^{Kt}$$

$$Q = Q \circ e^{Kt}$$

$$A = P(1 + \frac{1}{n})^{n}$$

$$A = P(1 + \frac{1}{n})^{n}$$$$$$$$

