

DATE

7 lesson

3^x - exponential function

$$a^0 = 1$$

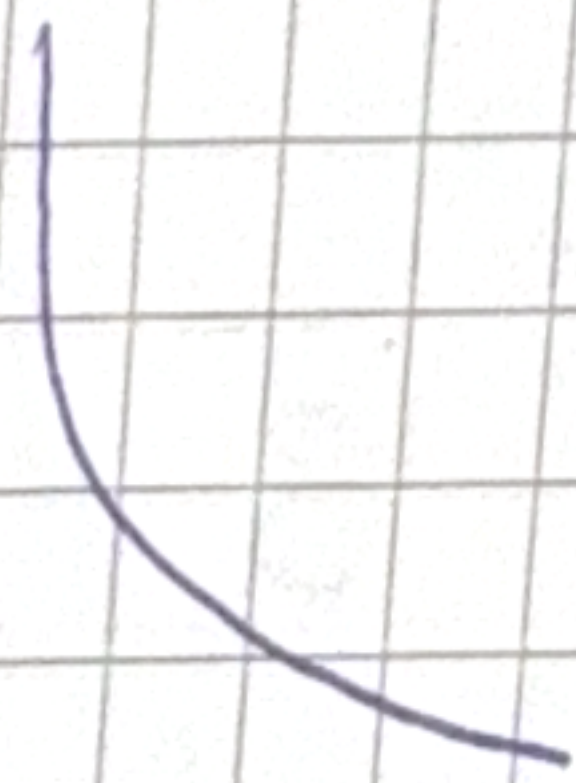
$$\underbrace{\cdot 3} \quad \underbrace{\cdot 3} \quad \underbrace{\cdot 3}$$

$$y = ab^x$$

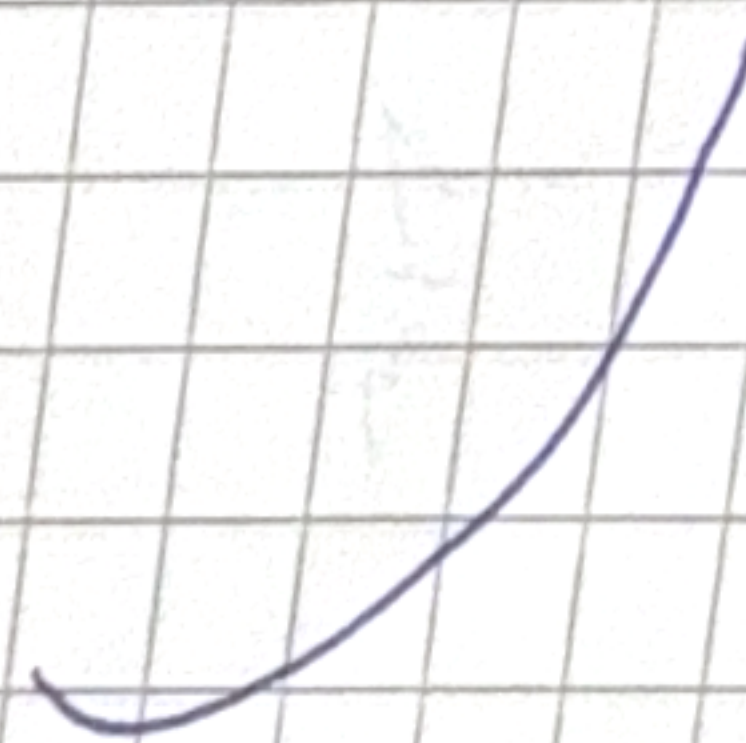
example:

$$y = 64 \cdot \left(\frac{1}{2}\right)^x$$

$$b < 1$$



$$b > 1$$



increase by 5 (+5) every month $\rightarrow$ linear
increases by 5 times every month $\rightarrow$ exponential

simple percent - increase by % from original

compound percent