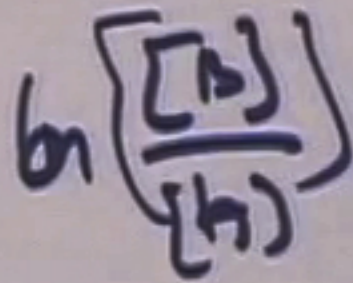
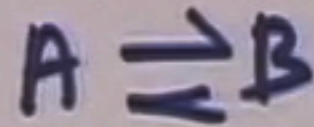
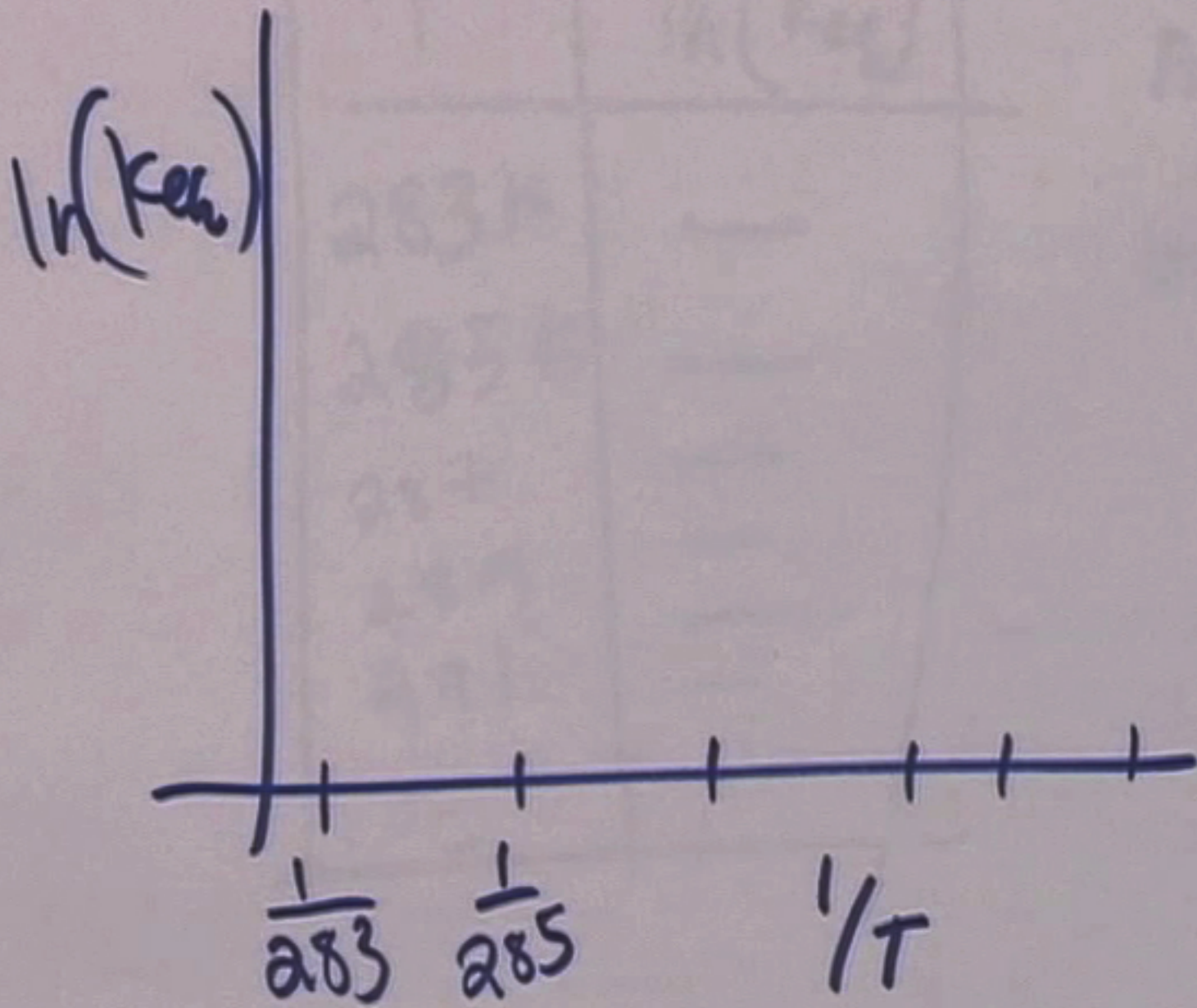


T	$\ln(K_{eq})$
283 K	
285 K	
287	
289	
291	
...	



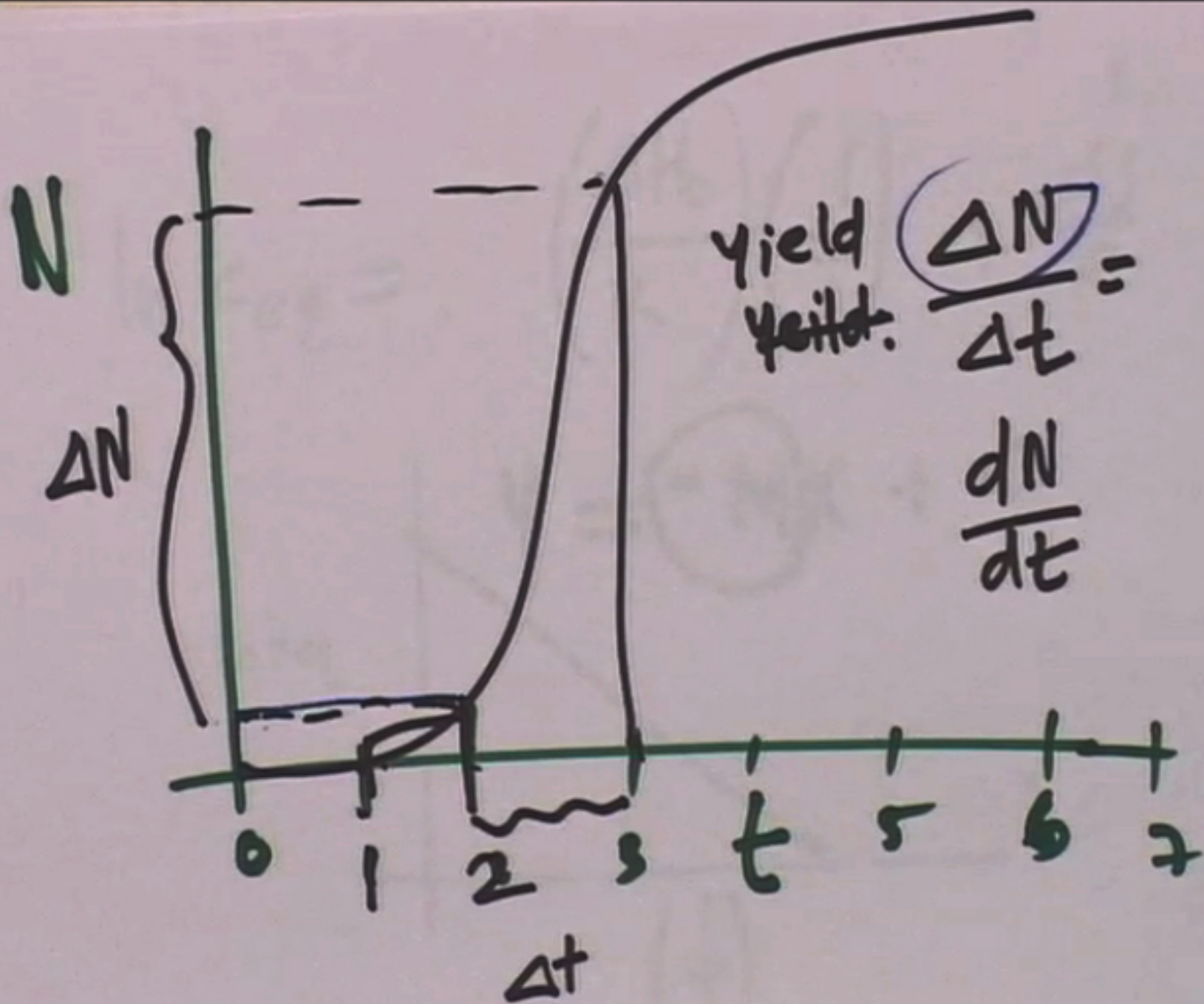


$$\ln K_{eq} = - \left(\frac{\Delta H_0}{R} \right) \left(\frac{1}{T} \right) + \frac{\Delta S^0}{R}$$

$$y = -m x + c$$

$\ln K_{eq}$

$\left(\frac{1}{T} \right)$

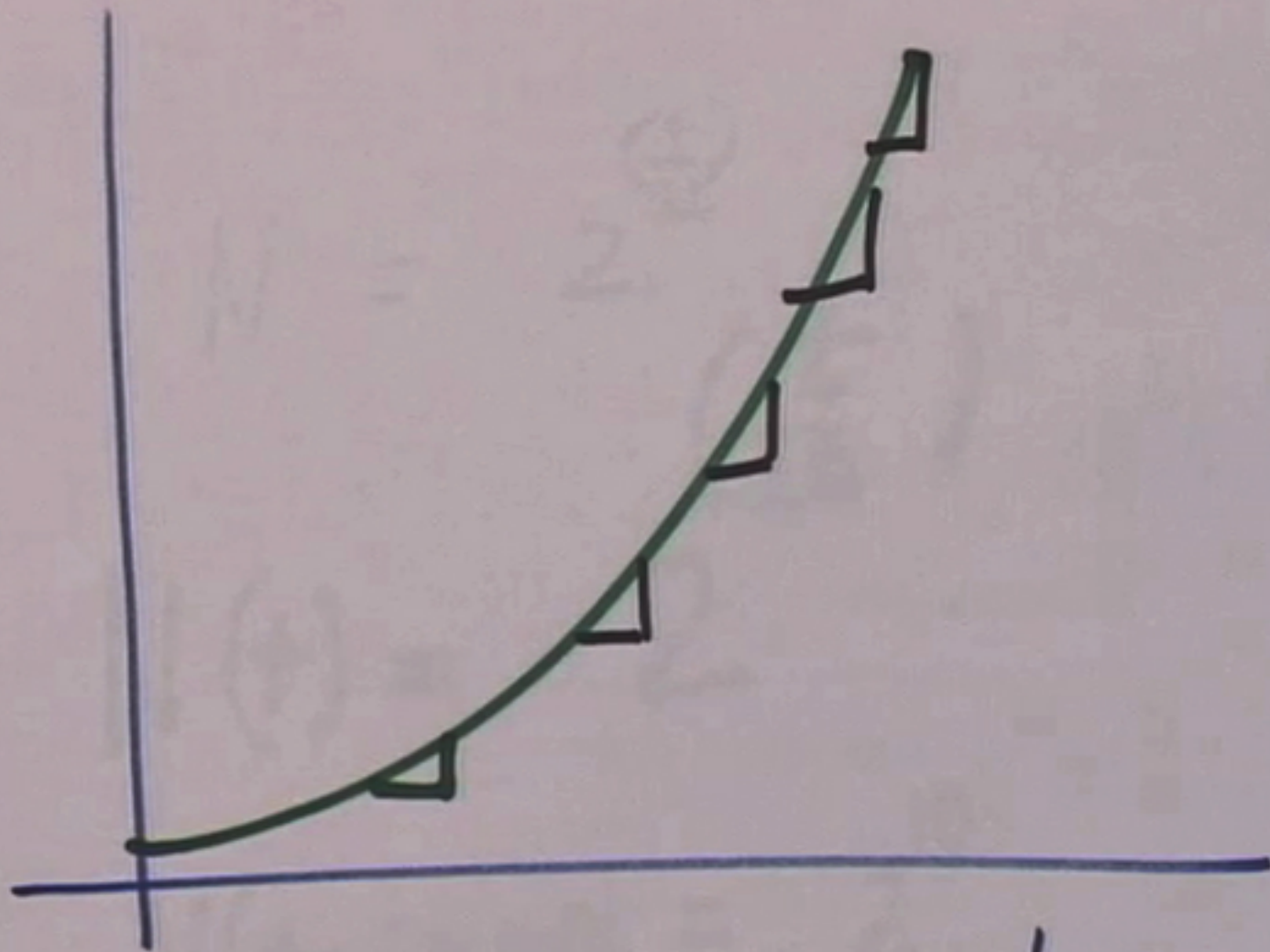


$$N = 2^{\left(\frac{t}{20}\right)}$$

$$N(t) = 2$$

$$N(t=200 \text{ min}) = \underline{\underline{2^{10}}}$$

z



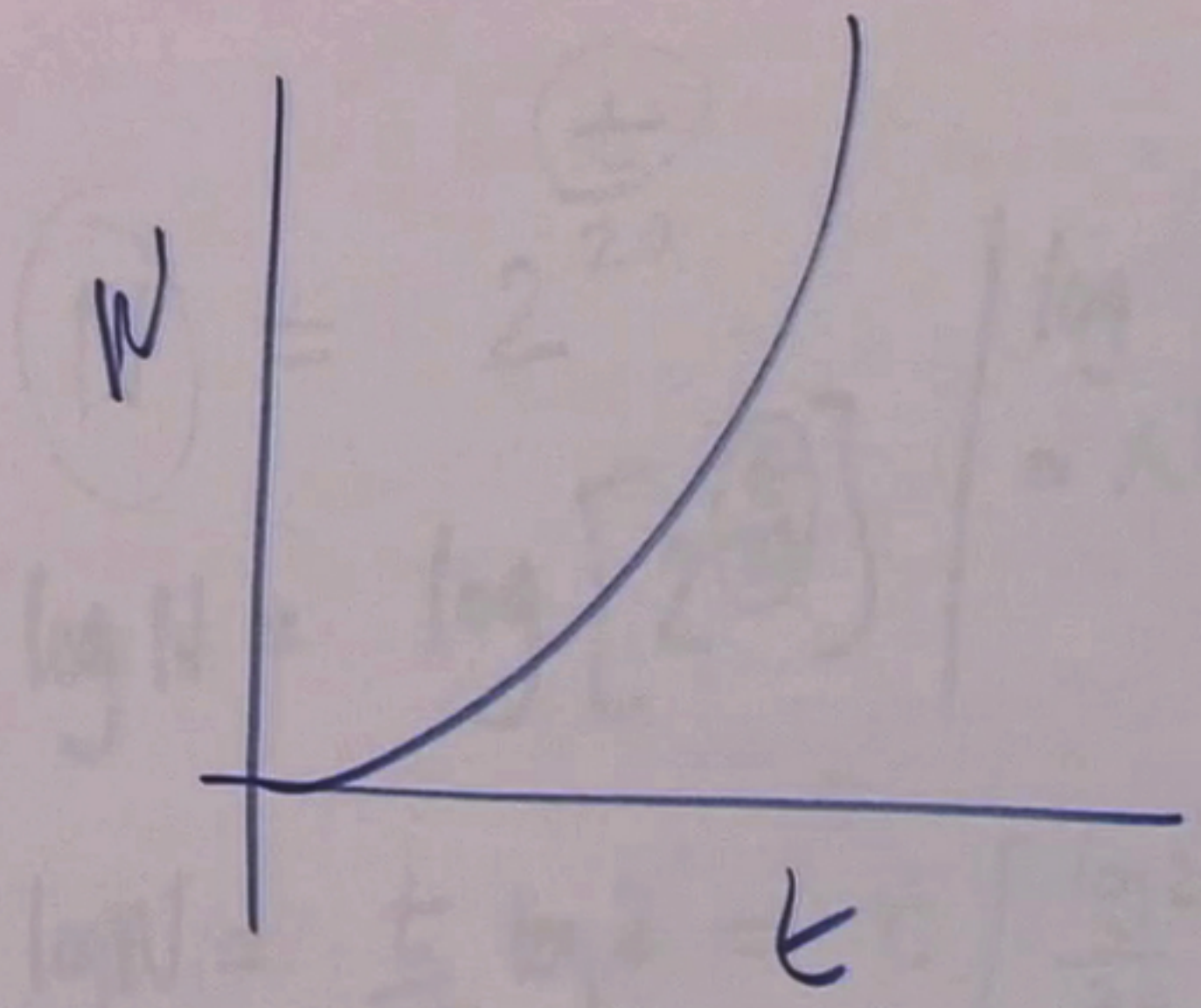
t

$$\textcircled{N} = 2^{\textcircled{\frac{t}{20}}}$$

$$\log N = \log \left[2^{\textcircled{\frac{t}{20}}} \right]$$

$$\begin{array}{l} \log a^x \\ = x \log a \end{array}$$

$$\textcircled{\log N} = \frac{t}{20} \log 2 = \textcircled{t} \left[\frac{\log 2}{20} \right]$$



$$\log N = t \left[\frac{\log 2}{20} \right]$$

$$y = x \ln$$

$k = \text{rate of growth}$

$$N = 2^{kt}$$

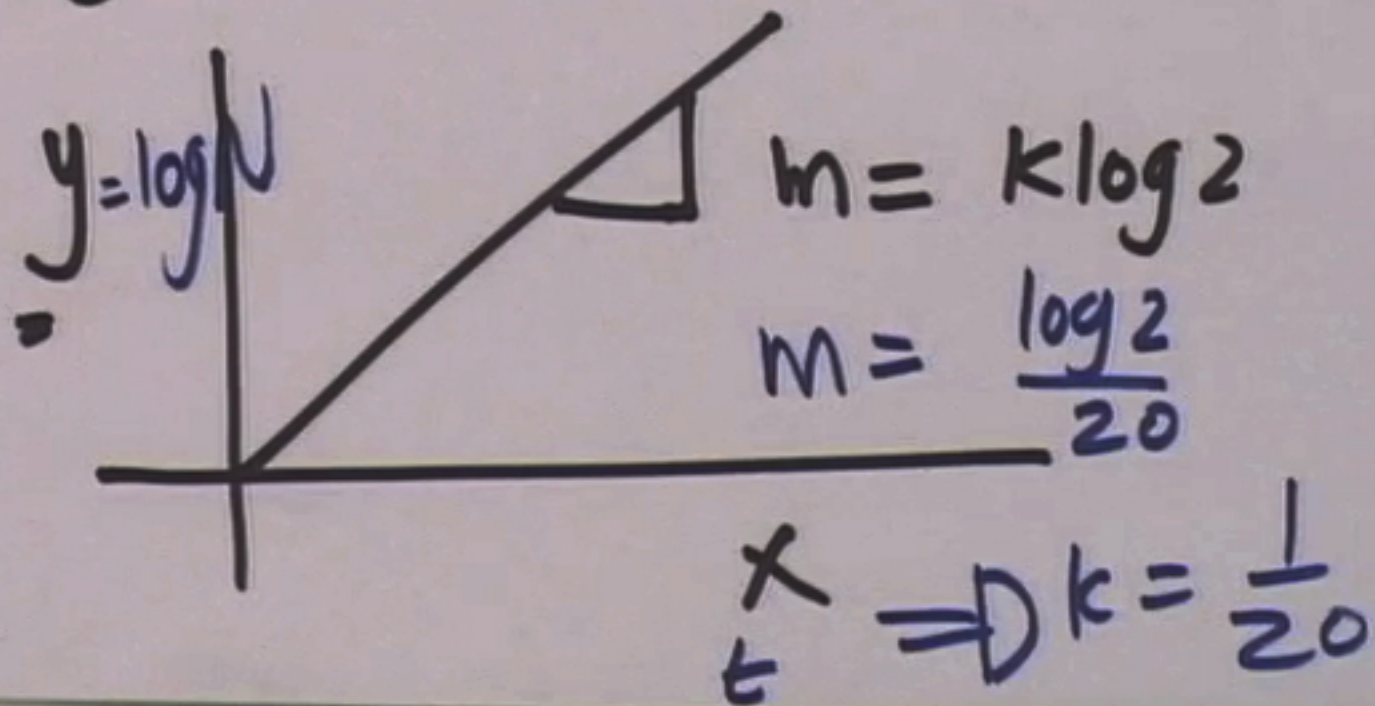
$$\log N = \log \left[2^{kt} \right]$$

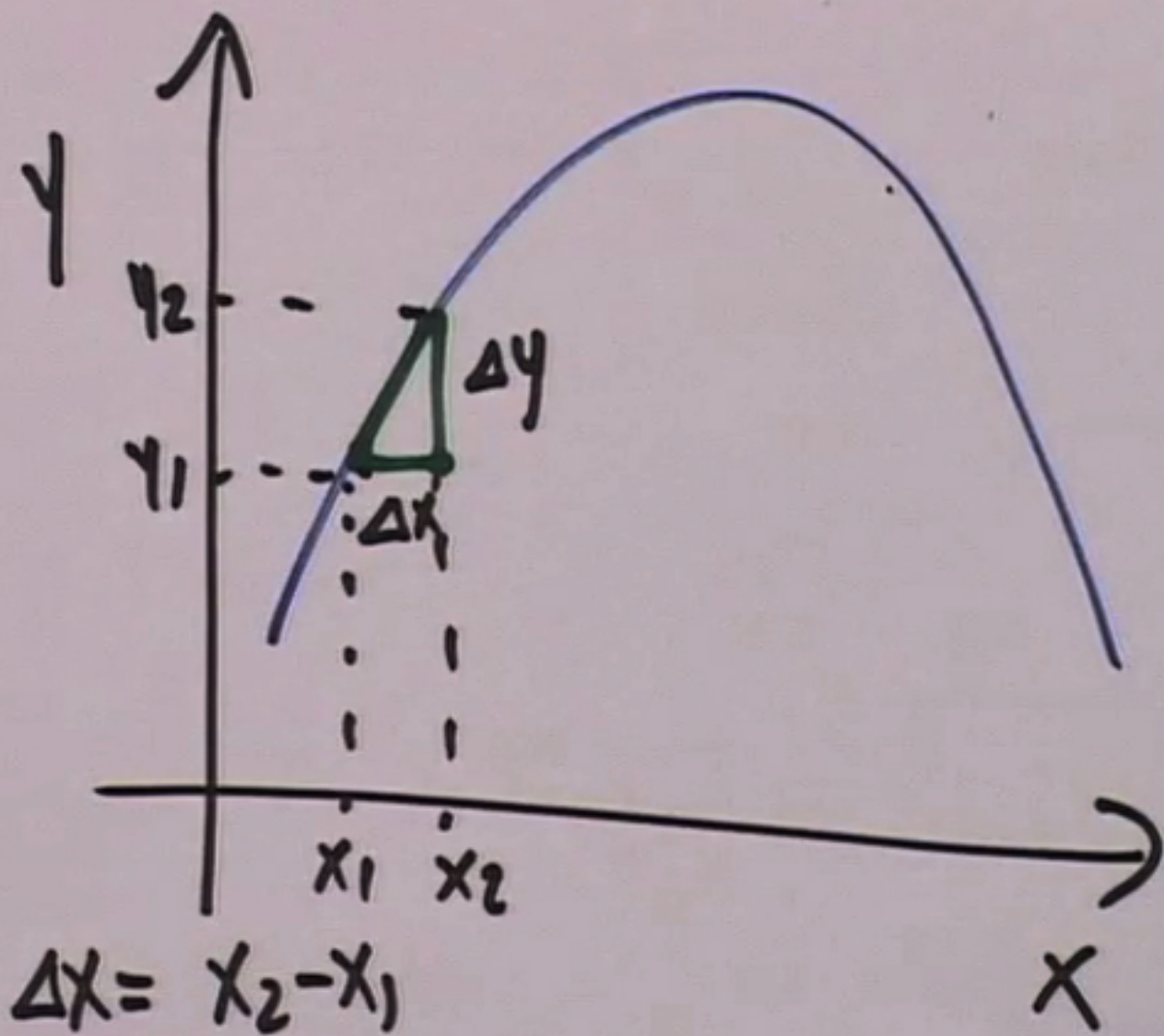
$$\log N = kt \log 2$$

$$\textcircled{\log N} = \textcircled{t} \boxed{k \log 2}$$

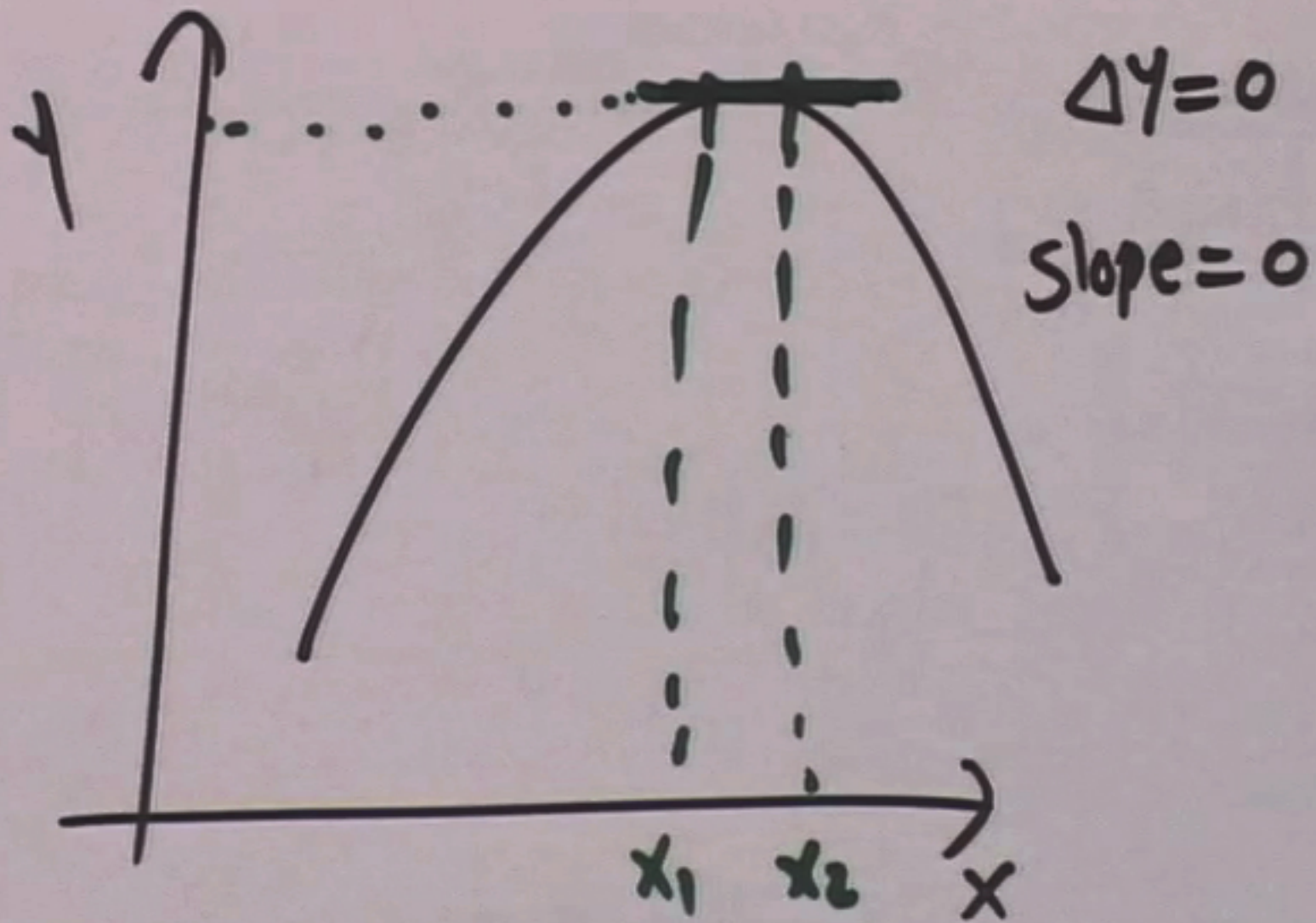
$$\log N = t \underbrace{k \log 2}$$

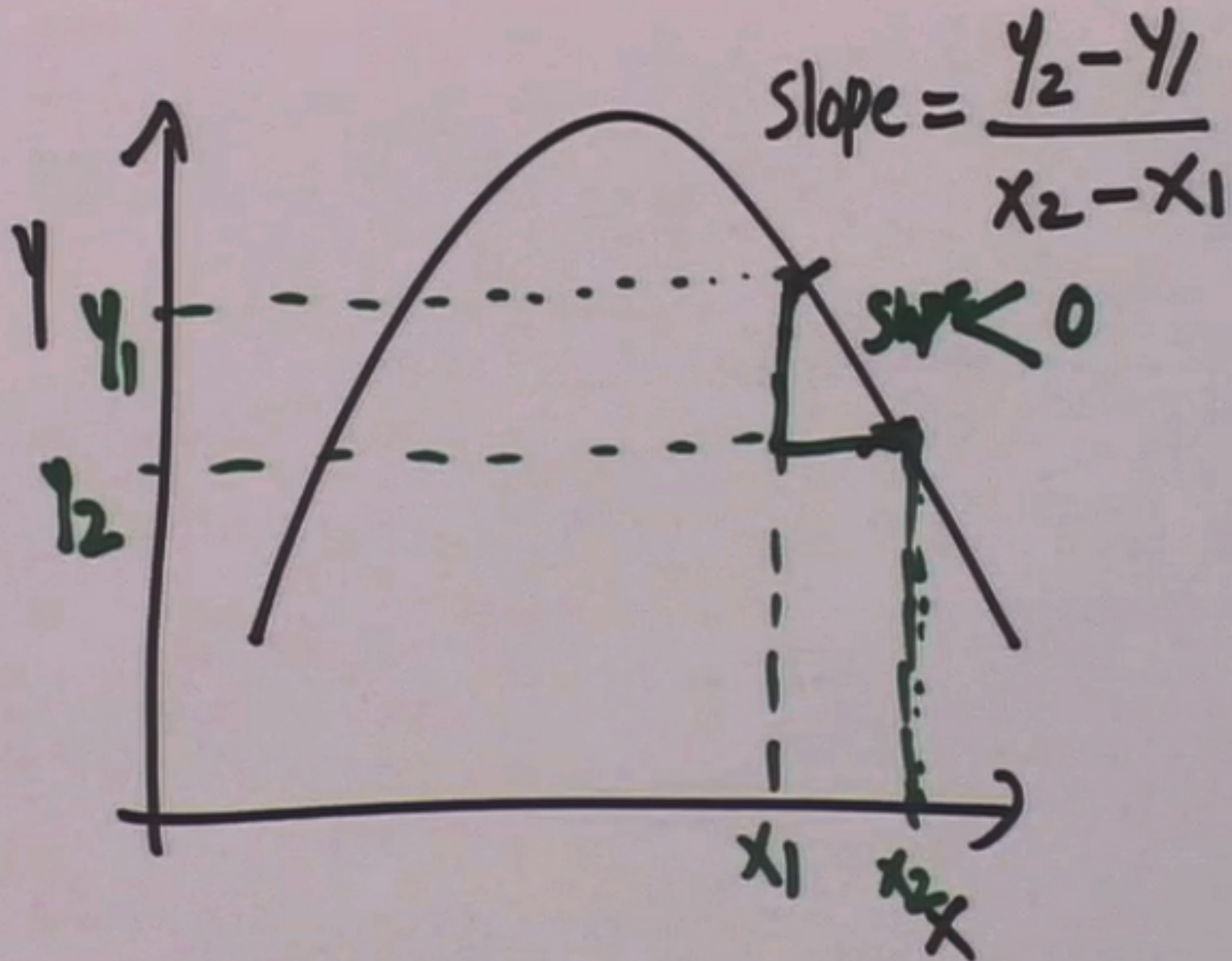
$$y = x m$$





$$\textcircled{1} \quad \text{slope} = \frac{y_2 - y_1}{x_2 - x_1} > 0$$





Slope

