

Ex 2)  $f(x) = \sqrt{x}$ . Find f'(x) and the slope of the graph at points (1, 1) and (4, 2).  $(X+h) = \sqrt{x} (\sqrt{X+h} + \sqrt{x})$ f(x) h VX+h+VX  $(\check{I},I) \rightarrow \bar{z}_{v}$   $(\check{I},z) \rightarrow \bar{z}_{v}$ h(Vx+h+VX) h(vx+hvx) = 1in h>c  $\frac{1}{\sqrt{k}t_{1}^{2}+v_{x}^{2}}=\sqrt{\frac{1}{\sqrt{k}t_{0}}}+v_{x}^{2}$   $\frac{1}{\sqrt{k}t_{1}^{2}}=\frac{1}{\sqrt{k}t_{0}^{2}}$