Physics 341 - Lecture III

- (1) Gittlub, Grogle Classroom, Colaboratory, and all that
- 2) More on uncertainties in experimental data

statistical mentach

Car resistance

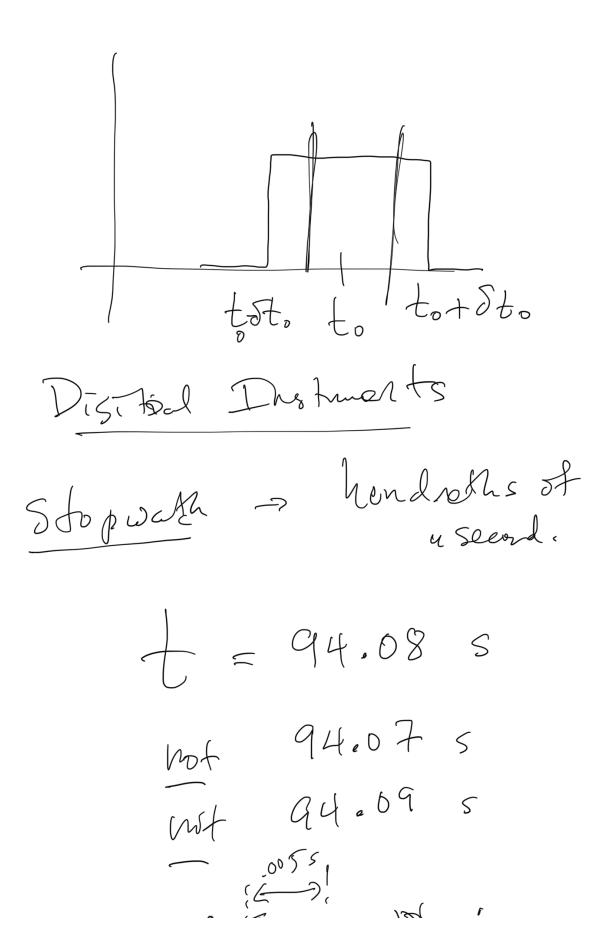
-, uncertainty PRECES expeded velue avoid wean,

impreure ACCURACT Sostenadic moortant > shift for he exported value. What is the uncertainty a calculated quality on saw quantities (based $\frac{1}{2}gt^2$ $h = h_0 \pm 5$

Brute Fore Method $q = \frac{2h}{t^2}$ $h = h_0 + \delta h_0$ $h = h_0 + \delta h_0$ $t = t_0 \pm \delta t_0$ $t = t_0 - \delta t_0$ $G = \frac{2(h_0 + \delta h_0)}{(t_0 + \delta h_0)^2}$ $\int_{5.5}^{b.5} \int_{5.5}^{a} \int_{5.5}^{$) (h - 5 km)

tanho(2) 2 ± 52 what kind of weeken to Nomel disturbit

Uniform Dostribion.



94.07
$$\frac{1}{94.08}$$
 $\frac{1}{94.09}$ $\frac{1}{94.$

$$\left|\frac{\partial g}{\partial \lambda}\right| = \left|\frac{2}{4^2}\right| \quad \frac{\partial g}{\partial \lambda} = \left|\frac{4h}{4^3}\right|$$

$$= 4h$$

$$\partial_g = 2 \lambda + 4k + 5t$$

$$t^2 t$$

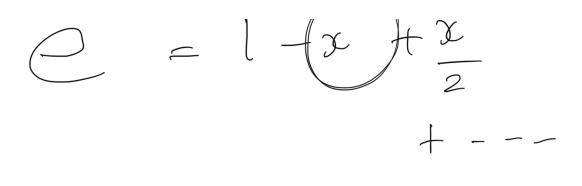
of en % crow Chow

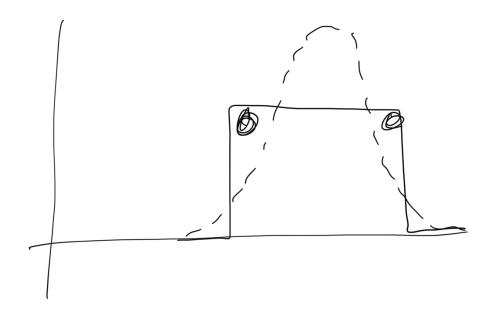
$$y = x^{3} + 252$$

$$y = 35x + 252$$

$$y = x$$

$$\left(\frac{\delta g}{\delta g}\right)^{2} = \left(\frac{\delta g}{\delta h}\right)^{2} \left(\frac{\delta h}{\delta h}\right)^{2} \left($$





result = f(a,b,x,7)(vaye) (vaye) (vaye

(= 11

