

$$\rho^{\circ} \rightarrow 0 \xrightarrow{cor} \Lambda' \rightarrow$$

Sometimes your model iso to norrow. We need to more north.

IF we go howk to t=0  $V_0=0$   $M=\frac{1}{2}94^2+V_0+C$   $N_0=-\frac{1}{2}94^2+C \implies C=h_0$ 

Define to as the ith time the bull hit the sound.

From 
$$t=0$$
 time  $t=t_1$ 
 $h=h_0-\frac{1}{2}gt^2$ 
 $V=-gt$ 

From tot, tim t = to V, velocity immittely after the bounce

From too time tot,  $h = h_0 - \frac{1}{2}g^{2}$   $V = -g^{2}$   $h = \frac{1}{2}h_0$ Frontel, tim t=t2 V, resourt immediately after the bounce  $V_{12}-k \left(-9t\right)$   $h=V_{1}t-\frac{1}{2}gt$   $V=\frac{3h}{3t}=V_{1}-9t$ Side rate.

Maximum hight at time to add to the stand to the time to add to