Where is the both of time t? Model A hop Q  $h = h_0 - \frac{1}{2} qt^2$   $t_1 = \sqrt{\frac{2h_0}{a}}$ Does not take into account the ground! Simulation:

g and he are given

h(t) -> output of the shuller Model B What happens from t1 to t2  $V_{12}-K(-9t_1)$  0 0 0 0 0 0K=0.8 -19111 -111 Sens have  $\begin{cases} h = \sqrt{t} - \frac{1}{2}gt^2 \\ V = \frac{3h}{3t} = \sqrt{1 - gt} \end{cases}$  $t_{2}-t_{1}=\frac{2V_{1}}{9}$   $t=\frac{2V_{1}}{9}$   $t=\frac{2V_{1}}{9}$ 

Simulation.

V(HECK +, cabandations

Both trajeton From t, to te