PHYZSPRINGBOARD: ANOTHER SLIPPERY AFFAIR 5-8: PARALLEL SLIPES



Develop equations for the characteristics of each slide in terms of the elevation \mathcal{E} and run length *R* of slide 5. Then compare the expressions for the individual inclines (I_1, I_2 , etc.) and total incline of each slide to the original incline I_0 by means of a product (ex: $2I_0$) or quotient (ex: $I_0/3$). Repeat comparisons for power.

5.Yer Basic Slide (dig the groovy 3-D)







 $V_{TOT} =$

 $I_{TOT} =$

 $P_{TOT} =$

 $V_1 =$

 $I_1 = I_2 =$

 $P_1 = P_2 = R_{EO} =$

 $V_2 =$

7. Make Mine a Triple $(R_1 = R_2 = R_3 = R)$ (this time, you draw in the V's and I's)



 $R_{EQ} =$