

na abocau: ma= mysind-T, T= \muFa= \mungcosd

mua = mg sind - jung cosd

a= psind - up w sd

predhost jahr uzyskaja sanki u podrošie paporko, livymy ze uzvru $L = \frac{V^2}{2a} \implies V = 1/2al = \sqrt{2g(\sin k - \mu \cos k)}L$

na ptashiej priendin:

the uson bez cresu $x = \frac{V^2}{2|\alpha|} = \frac{2g(\sin \alpha - \mu \cos \alpha)L}{2\mu g} = \frac{L}{\mu}(\sin \alpha - \mu \cos \alpha) \approx 241.3 \text{ m}$