# Nutcracker Problem 3 

August 30, 2013

A tall, thin cylindrical tower of height $H$ is displaced from its vertical position so that it topples by rotating about its base $B$ until it breaks at a point $A$. Show that the most likely distance $h$ of $A$ from $B$ is $H / 3$. Assume that the tower breaks because of excessive torque and the tower bends and snaps.


