



# LPR Cup

10.s01.e03

Hint 1



## Hint 1

(0 points) You don't need to send solution for this question!

A ring is made of a thin rubber cord of length  $L_0$  and mass  $m$  with the coefficient of elasticity  $k$ . The ring is put on a smooth cone with angle of  $2\alpha$ . The axis of the cone is vertical. Find the tension force in the ring and its new length.

