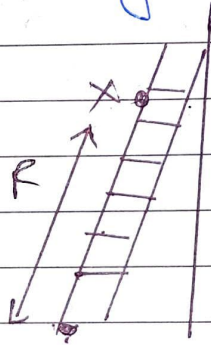
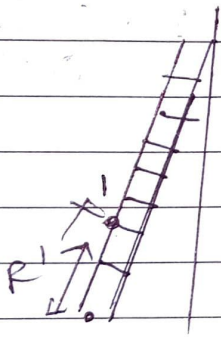


Paras Yadav

Ques-23 why is ladder more likely to slip when you are at top than when you just begin to climb.

When one is at top of ladder, then a large torque is produced about the point where it touches ground ($\because \tau \propto r \times F$) because Torque is directly proportional to perpendicular distance. Whereas when we just start climbing up distance is small so, torque is also small and hence it is less likely to ~~fall~~ slip.



$$R' < R$$