


Tutorial-3

7
(1) Find the degrees of freedom for below systems.

(i) 
a dumbbell

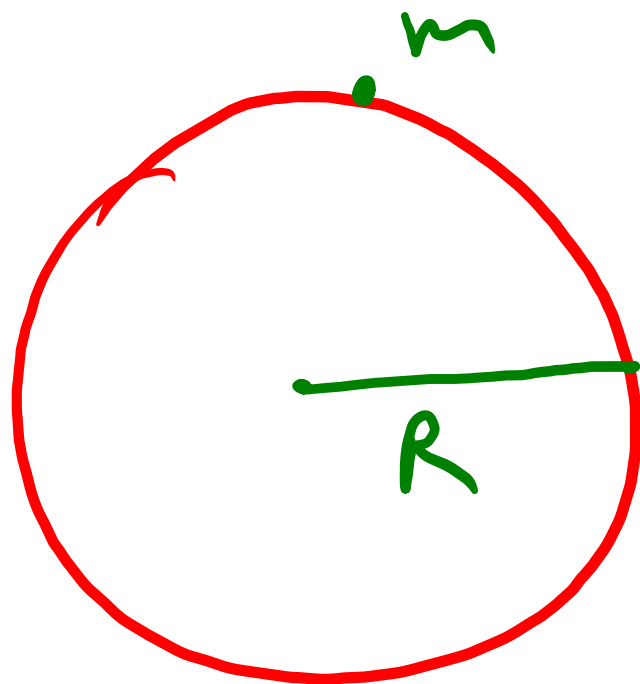
(ii) 
a triangular plate

(iii) A particle moving on the surface of a solid sphere of fixed radius R

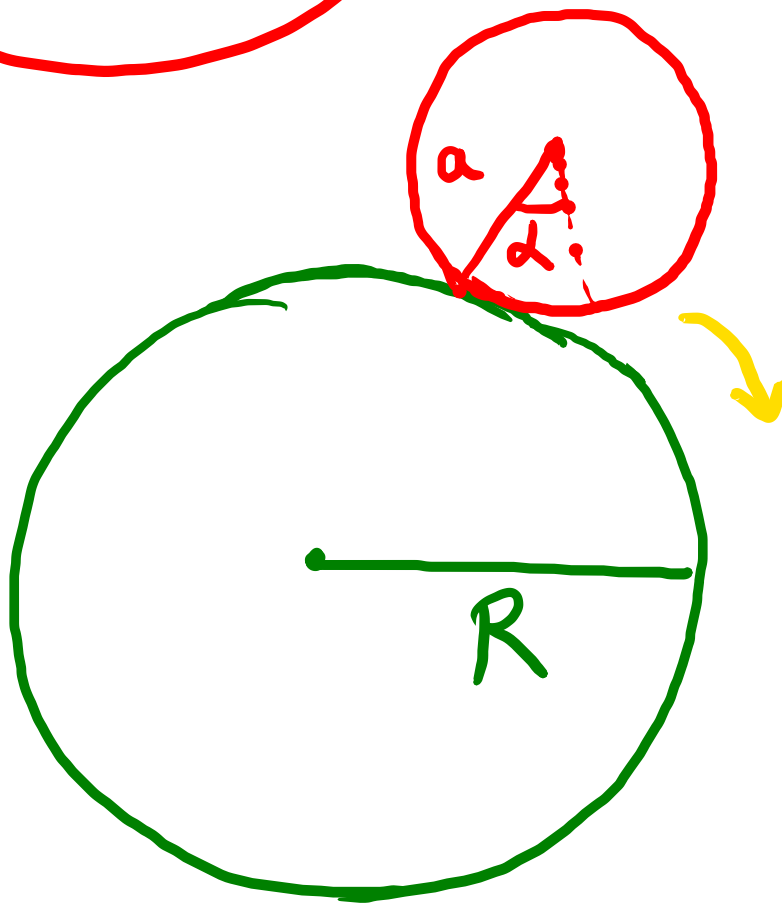
- (a) Consider point mass particle
- (b) Consider a finite ball of radius a

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(a)



(b)



(3) Why we don't feel the centrifugal force on earth surface?
calculate quantitatively