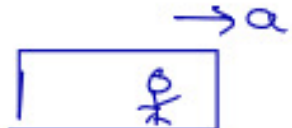


QUES 06:-


A person driving a car suddenly applies the brakes on seeing a child on the road ahead. If he is not wearing seat belt, he falls forward and hits his head against the steering wheel. Why?

SOL:-

$t = \infty$



$t = 0^+$



$a = 0, v = 0$
stopped
(self assessment)

(ii) pseudo force

Force analysis

Please analyze the motion in both ground frame and car frame separately

In this case you can't able to visualize by pseudo force; do contact me or other mentors through forum.

Every similar case is also discussed in lecture.