

# Problem on constant magnetic field

for  $\vec{E} = 0$

$$\frac{d\vec{r}}{dt} = 0$$

Show that this implies  $\vec{v} \cdot \vec{a} = 0$ .

Does this imply circular motion?  $\leftarrow$  Think!

Do

Motion in  $\vec{E}$  &  $\vec{B}$ .

Ref: Landau & Lifshitz.