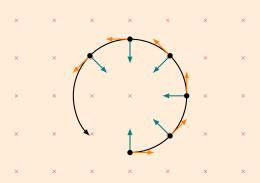
## 210622MAG02E

work done in a constant magnetic field



$$\vec{B} \times \\ \vec{v} \rightarrow \\ q \bullet \\ \vec{F}_m \rightarrow$$

$$W = \int \vec{F}_m \cdot d\vec{r} = \int q \left( \vec{v} \times \vec{B} \right) \cdot \vec{v} dt = 0$$