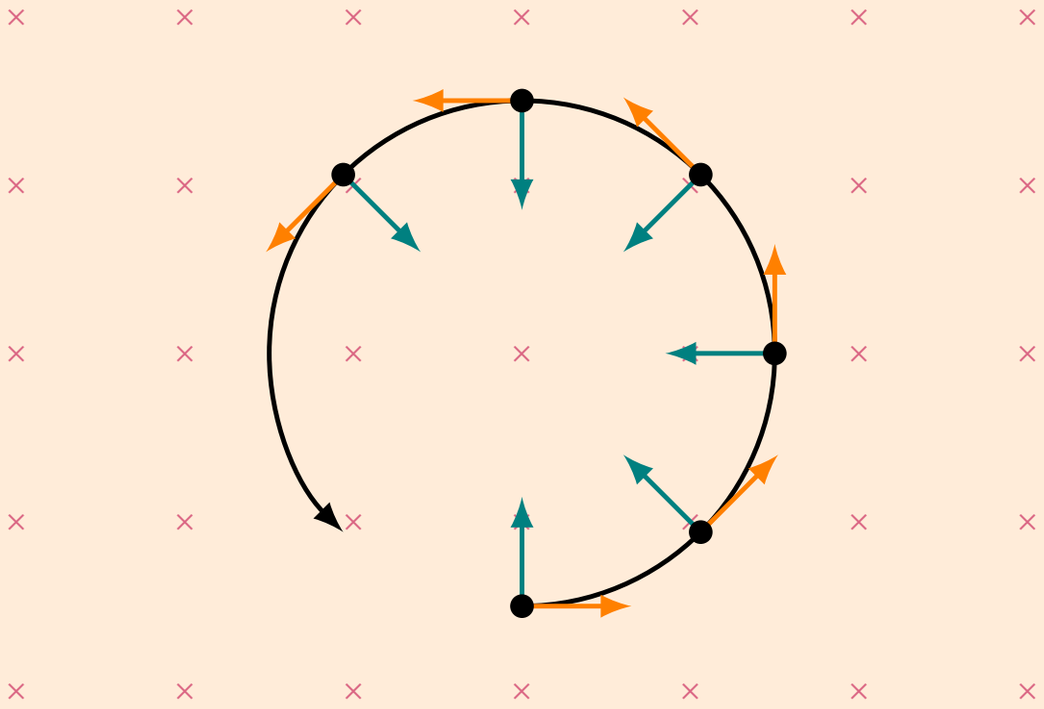
work done in a constant magnetic field



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

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