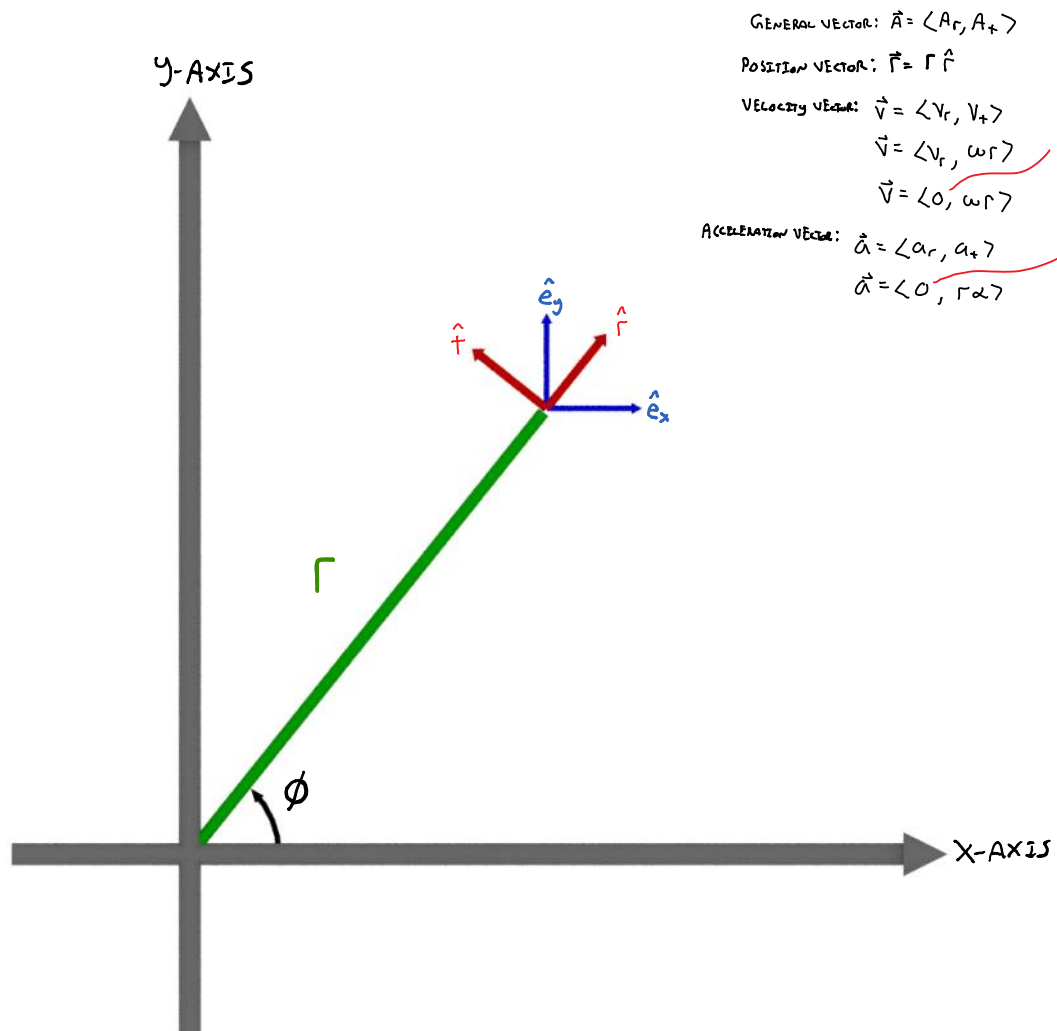


PLANE POLAR COORDINATES



GENERAL VECTOR: $\vec{A} = \langle A_r, A_\phi \rangle$

POSITION VECTOR: $\vec{r} = r \hat{\mathbf{e}}_r$

VELOCITY VECTOR: $\vec{v} = \langle v_r, v_\phi \rangle$

$\vec{v} = \langle v_r, \omega r \rangle$ *OUR CLASS, $v_r = 0$*

$\vec{v} = \langle 0, \omega r \rangle$

ACCELERATION VECTOR: $\vec{a} = \langle a_r, a_\phi \rangle$

$\vec{a} = \langle 0, r\alpha \rangle$ *OUR CLASS, $a_r = 0$*