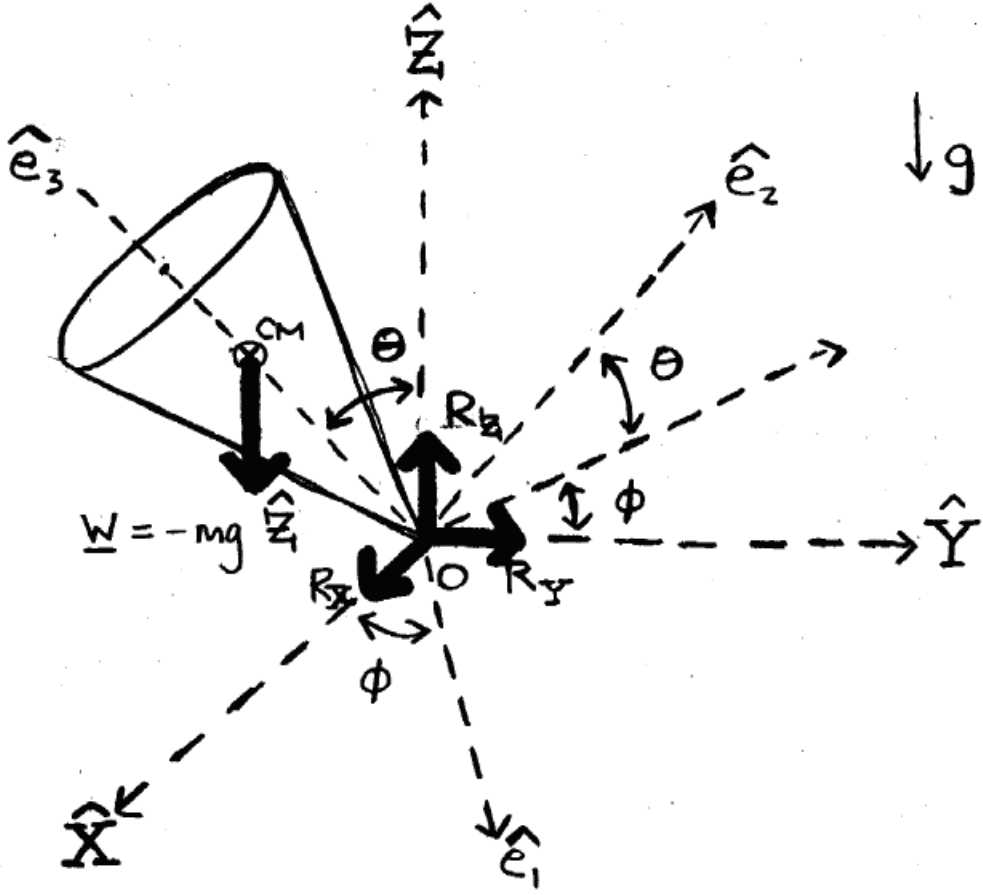
$\hat{Z}$
$\hat{e}_3$
$\hat{e}_2$
g
CM
θ
θ
R_Z
ϕ
$\underline{W} = -mg\,\hat{Z}$
$\hat{Y}$
R_X
O
R_Y
ϕ
$\hat{X}$
$\hat{e}_1$