Equations

$∑F\_{x}=ma\_{x}$ $∑F\_{y}=ma\_{y}$ $F\_{net}=\sqrt{\left(∑F\_{x}\right)^{2}+\left(∑F\_{y}\right)^{2}}$

 $F\_{g}=mg$ $F\_{k}=-kx$ $τ=Iα$ $τ=Fl$ $∑I=∑mr^{2}$

 $ω=\frac{θ}{t}$ $α=\frac{∆ω}{t}$ $v=rω$ $a=rα$ $θ=ω\_{o}t+\frac{1}{2}αt^{2}$

 $ω^{2}=ω\_{o}^{2}+2αθ$ $θ=\frac{1}{2}\left(ω\_{o}+ω\right)t$ $\vec{τ}=\vec{l}×\vec{F}$

$L\_{o}=L\_{f}$ $\vec{L}=I\vec{ω}$ $L=mvr$ $\vec{L}=\vec{r}×\vec{p}$

$W=\vec{F}∙∆\vec{x}$ $f=\frac{1}{T}$ $ω=2πf$ $η=\frac{Fh}{A∆v}$

$x=A\cos(\left(ωt+φ\right))$ $v=\frac{dx}{dt}$ $a=\frac{d^{2}x}{dt^{2}}$ $E\_{o}=E\_{f}$

$KE\_{R}=\frac{1}{2}Iω^{2}$ $KE=\frac{1}{2}mv^{2}$ $PE\_{g}=mgh$ $PE\_{k}=\frac{1}{2}kx^{2}$

$ρ=\frac{m}{V}$ $P=\frac{F}{A}$ $P\_{2}=P\_{1}+ρgh$ $F\_{B}=F\_{g fluid}$

$A\_{o}v\_{o}=A\_{f}v\_{f}$ $P\_{o}+\frac{1}{2}ρv\_{o}^{2}+ρgh\_{o}=P\_{f}+\frac{1}{2}ρv\_{f}^{2}+ρgh\_{f}$

$T\_{C}+273.15=T\_{K}$ $T\_{C}=\frac{5}{9}\left(T\_{F}-32\right)$

$Q=mL$ $Q=cmΔT$ $ΔL=αL\_{o}ΔT$ $ΔV=βV\_{o}ΔT$