

~ CIRCULAR MOTION ~

spinnny spin stuff

UNIFORM C.M.

- def: moves with constant speed and changing velocity
- why? direction, not magnitude changes

EQUATIONS

Centripetal acceleration: $a_c = \frac{v^2}{r}$ or $a_c = r\omega^2$

Frequency: $\frac{1}{T}$

Period: $T = \frac{2\pi r}{v}$ or $v = \frac{2\pi r}{T}$

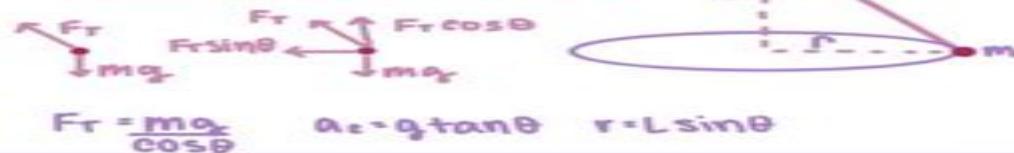
Angular Speed: $\omega = \frac{2\pi}{T}$ or $\omega = \frac{v}{r}$

ACCELERATION

Tangential: linear $\left(\frac{\Delta v}{t}\right)$
 Centripetal: circular $\left(\frac{v^2}{r}\right)$

> add vectors to get overall acceleration

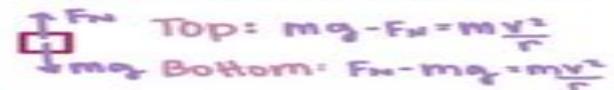
CONICAL PENDULUM



CENTRIPETAL FORCE

- $\Sigma F = ma \rightarrow F_c = m \frac{v^2}{r}$
- Uniform:
 - $F_c + a_c$ go to middle of the circle
 - v is \perp to a_c

VERTICAL UNIFORM

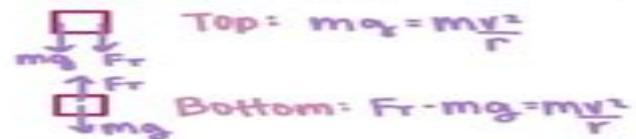


BANKED CURVES

reduces the risk of skidding by lessening the need for friction



VERTICAL NONUNIFORM



CENTRIFUGAL FORCE



FRQ $\hat{=}$ LAB ?s

- conical pendulum (pig lab)
- objects on spinning surface
- a little projectile motion
- vertical circles
- banked/unbanked curves
- swinging a chord

MISTAKES

- banked curves are hard
- figuring out what is even happening
- breaking the correct force into components

Conceptual Physics Chapter Circular Motion Study Guide

JR Anderson



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