

# ~ CIRCULAR MOTION ~

spinnny spin stuff

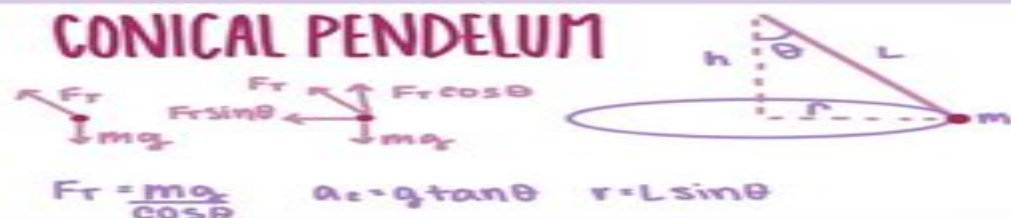
## UNIFORM C.M.

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

## 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



## BANKED CURVES

reduces the risk of shidding by lessening the need for friction



## CENTRIFUGAL FORCE



## EQUATIONS

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

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

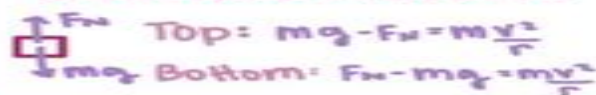
Period:  $T = \frac{2\pi r}{v}$  or  $v = \frac{2\pi r}{T}$

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

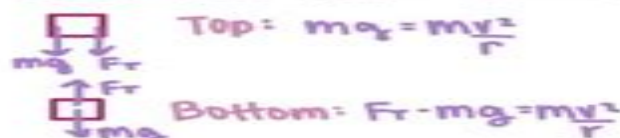
## CENTRIPETAL FORCE

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

## VERTICAL UNIFORM



## VERTICAL NONUNIFORM



## FRQ & 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

**Ying-Ying Zheng**



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