



$$\text{NET FORCE} = \text{HYP} = \sqrt{60^2 + 80^2} = 100\text{N}$$

TOA

$$\tan \theta = \frac{60}{80} \quad \theta = 36.87^\circ$$



POTENTIAL ENERGY of THE RUBBER BAND & SPRING

$$PE = \frac{1}{2} k x^2$$

← x = DISTANCE / DISPLACEMENT

k = SPRING CONSTANT $\Rightarrow \left[\frac{N}{M} \right]$ of SPRING

DESCRIBE ALL ENERGY TRANSFORMATIONS

PE \rightarrow KE

CHANGING OF DIRECTION of MOVEMENT

BIOLOGICAL TRANSFORMATION