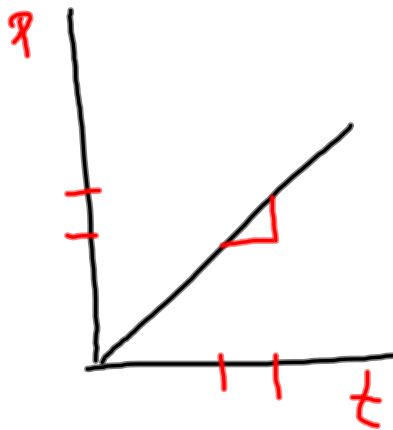


$$\text{SLOPE} = \frac{\Delta d}{\Delta t} \left( \frac{\text{M}}{\text{S}} \right) = \text{VELOCITY}$$

⇓  
CONST.

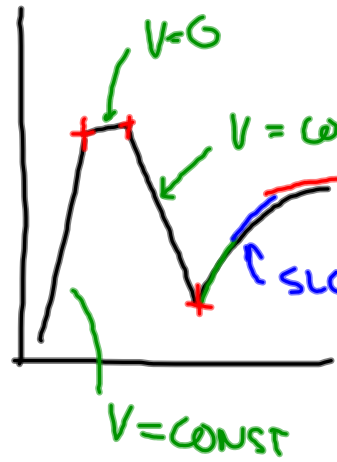
$$a = 0$$

OBJECT IS MOVING IN  
a + DIRECTION



SLOPE =  $\frac{\Delta d}{\Delta t} = \text{VELOCITY} \rightarrow$

$\rightarrow$  CONSTANT  $\rightarrow a = 0$



V = CONSTANT WITH OBJECT CHANGING DIRECTION  
 SLOPE IS NOT CONSTANT  
 V is changing  
 $a \neq 0$

① INERTIA → AN OBJECT IN MOTION WILL STAY IN MOTION UNLESS ACTED UPON BY AN OUTSIDE FORCE.

→ MARS

②  $\sum F's = \underline{ma} \rightarrow \text{NEWTONS} \left\{ 1N = (1kg) \left( \frac{1m}{s^2} \right) \right.$

SI → MKS - METERS - KILOGRAMS - SECONDS

③ FOR EVERY ACTION FORCE THERE'S AN EQUAL & OPPOSITE REACTION FORCE

MUM's Mass Based on weight of 900 Newtons

$$F = ma$$

$$W = mg$$

$$g = 9.81 \text{ m/s}^2$$

$$m = 91.7 \text{ kg}$$

① KILO → 1000

$\left[ \frac{1000 \text{ grams}}{\text{KILOGRAM}} \right]$

② Centi → 1/100

③ Milli → 1/1000

$$5g = 0.005kg$$

$$\frac{(5g)}{1000g/kg} \rightarrow 0.005kg$$