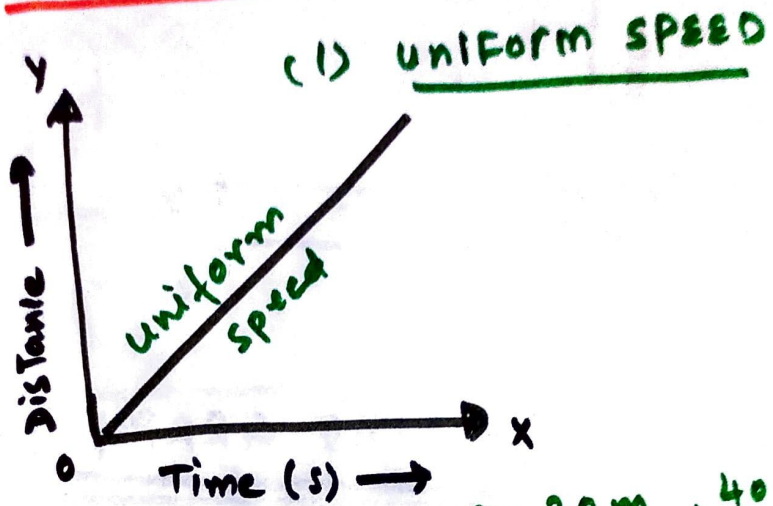


# # GRAPHICAL REPRESENTATION OF MOTION:-

## (I) DISTANCE - TIME GRAPH:-

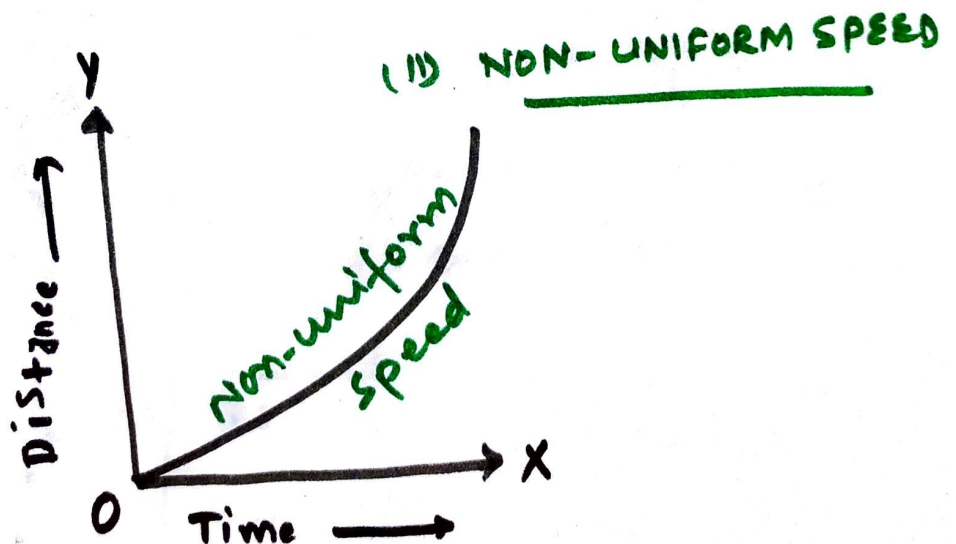
(I)



$S = 20\text{ m}, 40\text{ m}, 60\text{ m}$   
 $t = 2\text{ s}, 4\text{ s}, 6\text{ s}$

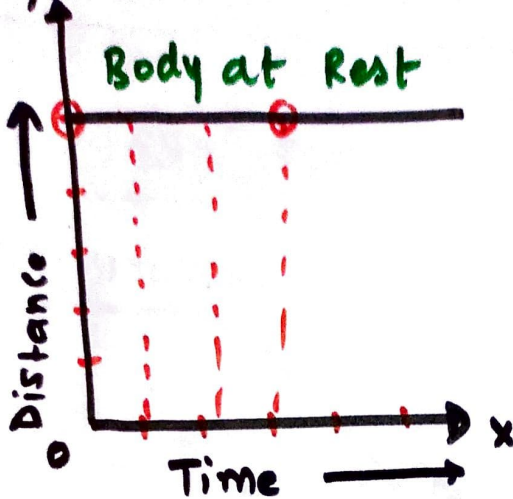


(II)

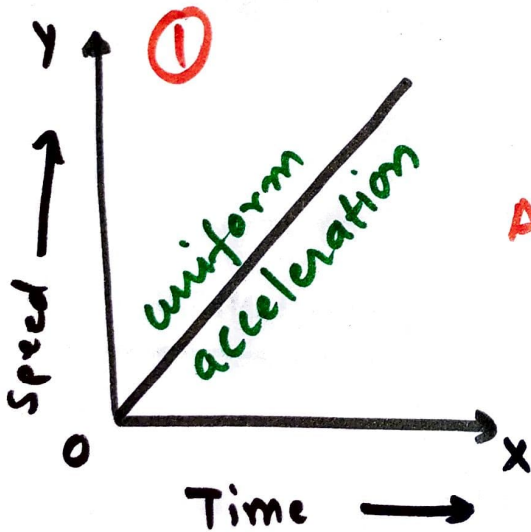


# A.R. TUTORIALS

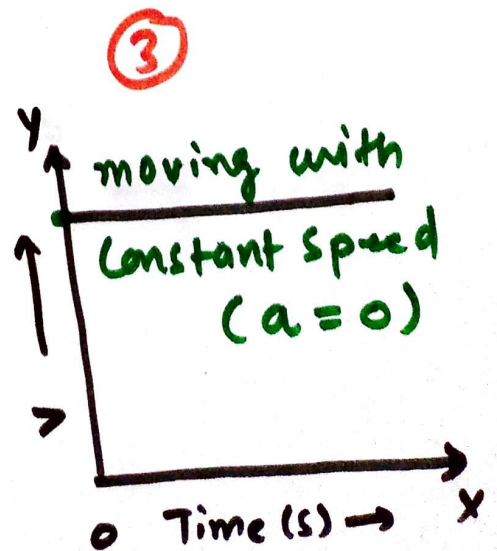
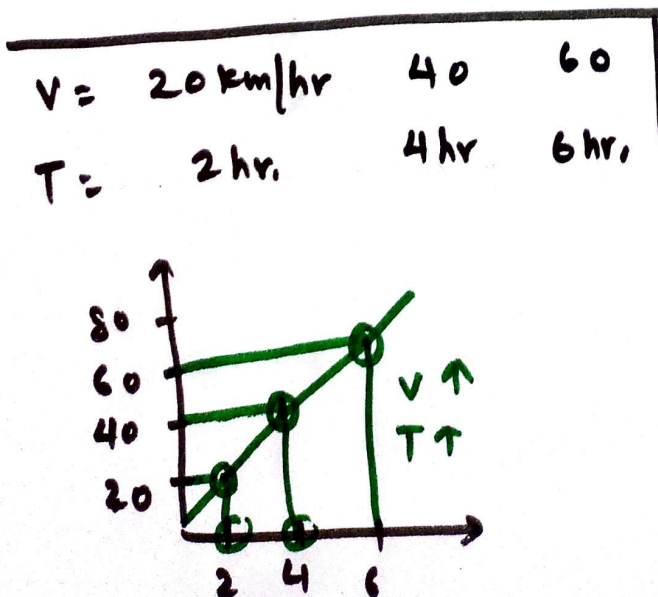
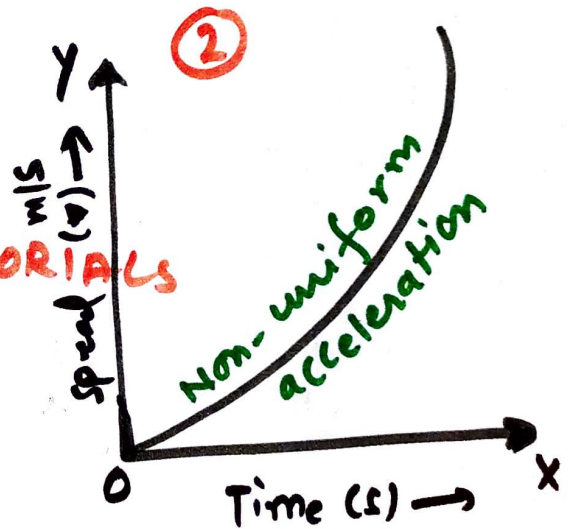
## (III) Body at Rest



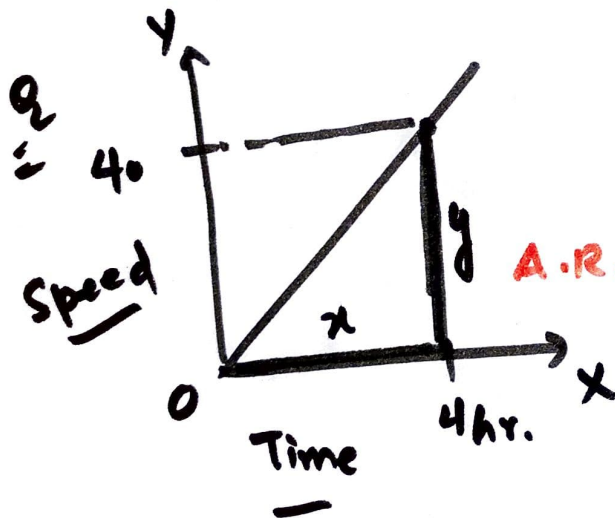
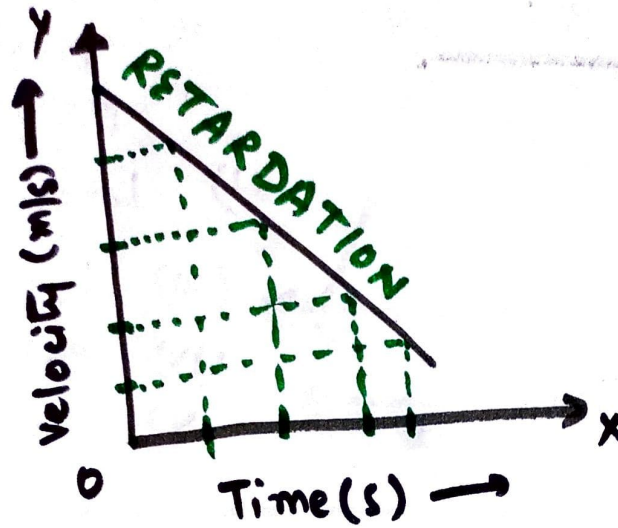
## (II) SPEED-TIME GRAPH :- (acceleration)



A.R. TUTORIALS



(4)

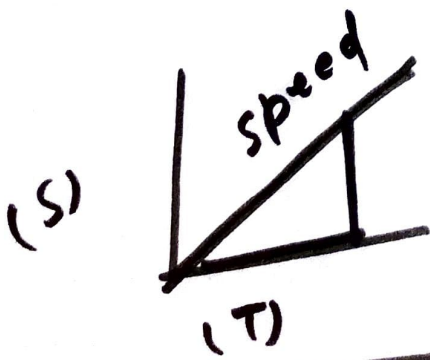


calculate acceleration?

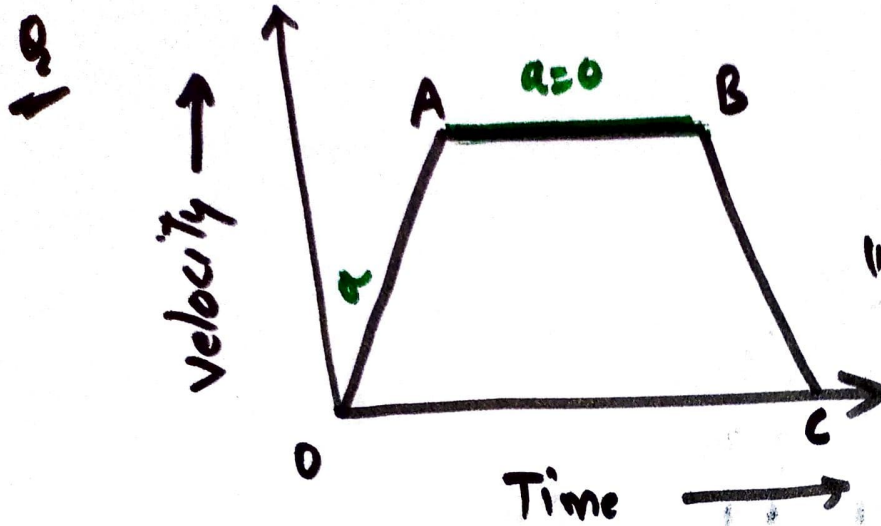
$$\boxed{\text{Slope}} = \boxed{\frac{P}{B}}$$

$$\Rightarrow \frac{40}{4} = 10$$

$$\Rightarrow \underline{\underline{10 \text{ km/hr}^2}}$$







- I) what type of motion is represented by line OA? acceleration
- II) Line AB? ( $a=0$ )
- III) Line BC? (Retardation)
- IV) Calculate acceleration
- V) " Retardation