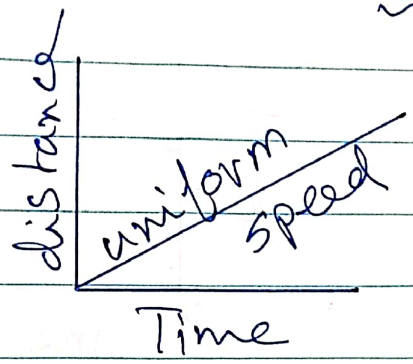
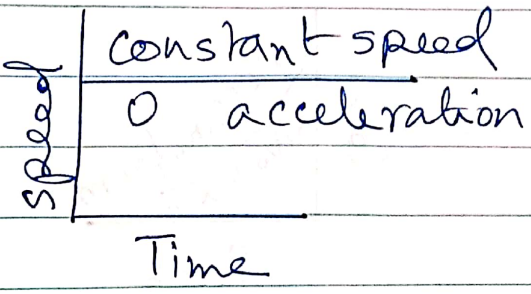
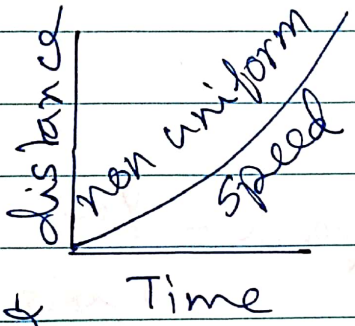
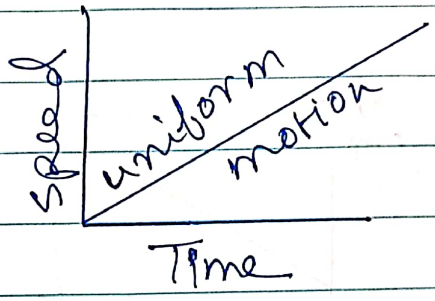
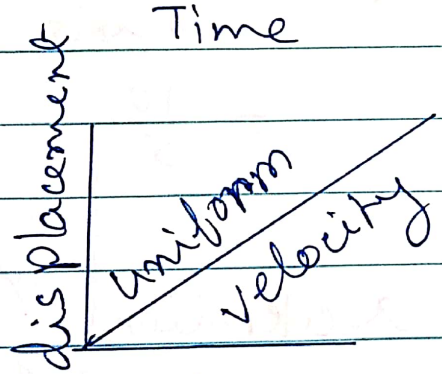
Graphs

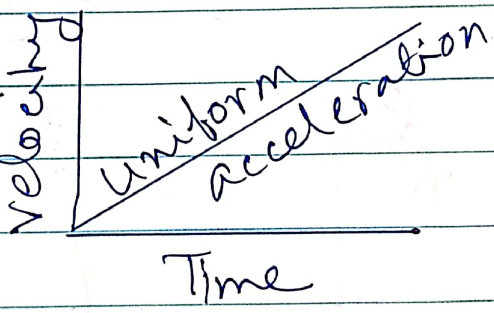


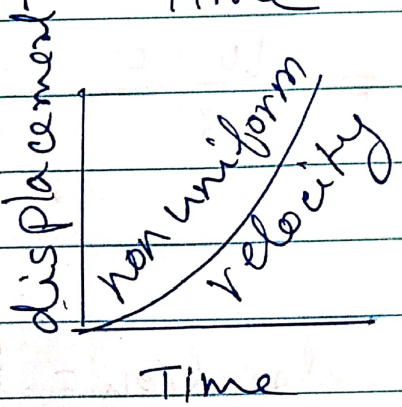


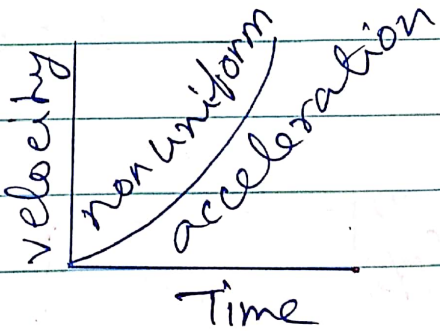


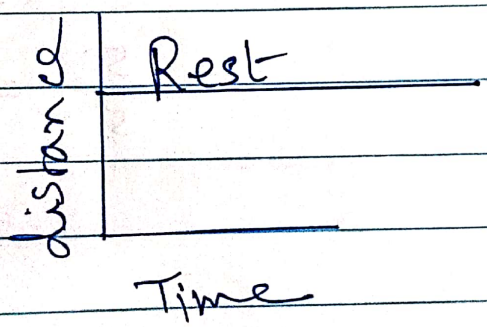


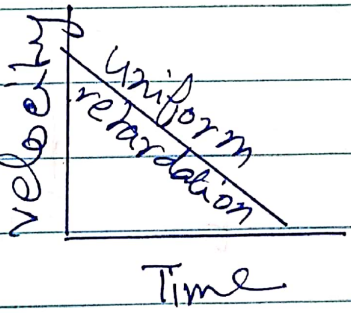


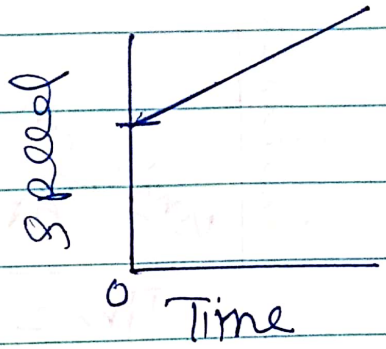


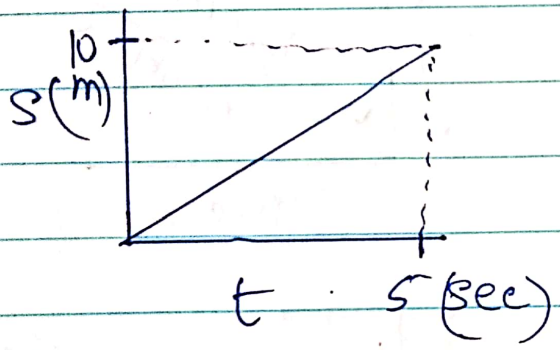






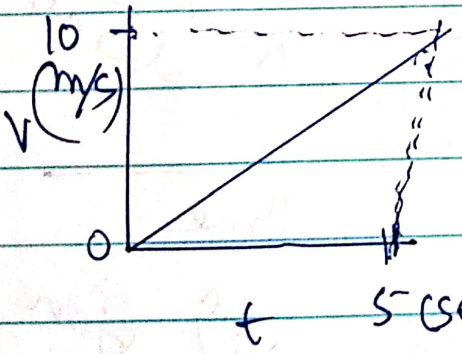






$$\text{Speed} = \frac{\text{Y axis}}{\text{X axis}}$$

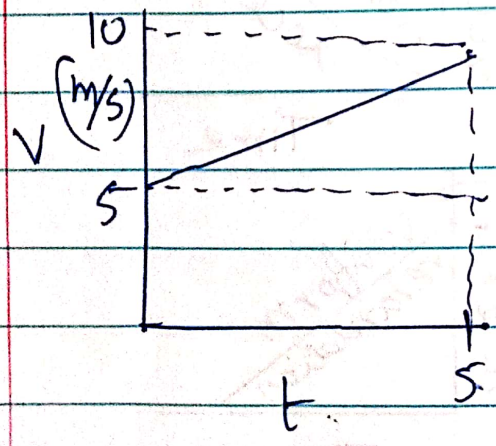
$$= \frac{10}{5} = 2 \text{ m/s}$$



$$\text{acceleration} = \frac{\text{Y axis}}{\text{X axis}}$$

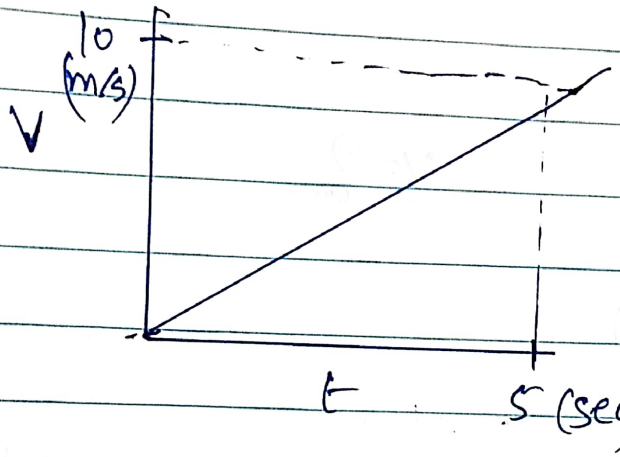
$$= \frac{10-0}{5} = \frac{10}{5}$$

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



$$\text{acceleration} = \frac{10-5}{5}$$

$$= \frac{5}{5} = 1 \text{ m/s}^2$$

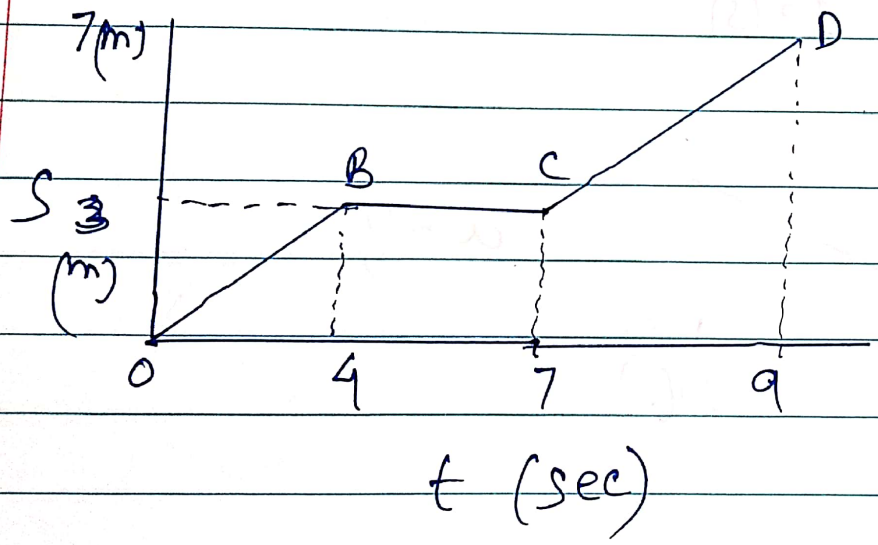


s = area of the triangle

$= \frac{1}{2} \times b \times h$

$= \frac{1}{2} \times 5 \times 10$

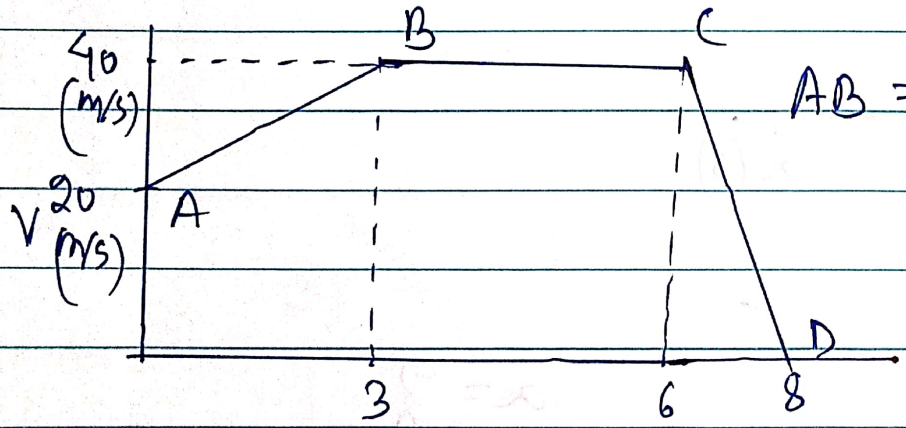
$= 25$ m



$V = \frac{3}{4}$ m/s (OB)

$V = 0$ (BC)

$V = \frac{4}{2} = 2$ m/s (CD)



$AB = a = \frac{40-20}{3}$

$= \frac{20}{3}$ m/s^2

$BC = a = 0$

$CD = a = \frac{0-40}{2}$

$= -20$ m/s^2