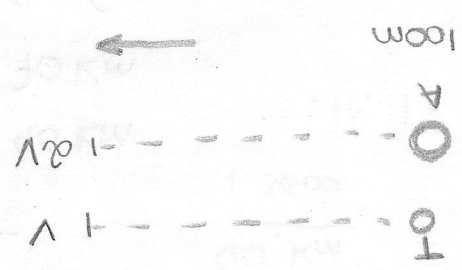


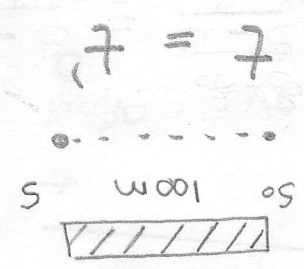
7)



$$\frac{100 - 0}{5} = \frac{2V}{5}$$

$$200V = 5V$$

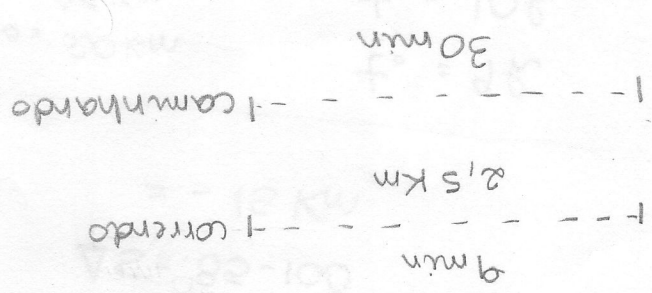
$$S = 200m$$



$$\frac{5 - 5_0}{2V} = \frac{2V}{5 - 5_0}$$

$$t = t'$$

8)



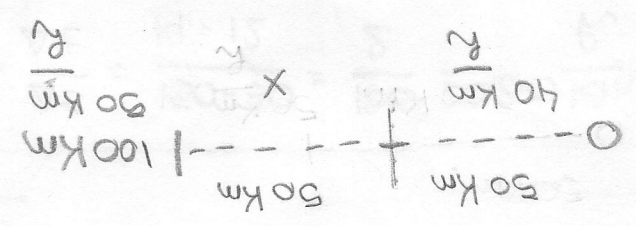
$$V_m = \frac{S - S_0}{t - t_0} = \frac{0}{0.35} = 0 \frac{V}{km}$$

$$V_m = \frac{5km}{0.65h} = 7.7 \frac{km}{h}$$

$$V'' = \frac{2.5}{0.5} = -5 \frac{km}{h}$$

$$V' = \frac{2.5}{0.15} = 16.67 \frac{km}{h}$$

9)



$$t'' = \Delta t - t = 2 - 1.25 = 0.75$$

$$V = \frac{50}{0.75} = 66.7 \frac{km}{h}$$

$$\Delta t = \frac{100}{50} = 2h$$

$$t' = \frac{40}{50} = 1.25h$$

10)  $\rightarrow$   $340 \text{ m/s}$

$40 \text{ m/s}$   
 $340 \text{ m/s}$

$$V = \frac{\Delta S}{\Delta t}$$

$$\Delta S = V \cdot \Delta t$$

$$\Delta S = 340 \cdot 1$$

$$= 340 \text{ m}$$

11)

0m  $\rightarrow$   $30 \text{ m/s}$   
 5m  $\rightarrow$   $20 \text{ m/s}$   
 10m  $\rightarrow$   $30 \text{ m/s}$

$$t' = \frac{S - S_0}{V' \cdot (t - t_0)} = \frac{S - S_0}{V \cdot (t - t_0)}$$

$$V \cdot (t - t_0) = V' \cdot (t' - t'_0)$$

$$20(t - 0) = 30(t' - 0)$$

$$20t - 0 = 30t'$$

$$10t = 15t'$$

$$t = 1.5t'$$

$$\Delta S' = V' \cdot \Delta t' = 30 \cdot 10 = 300 \text{ m}$$

$$\Delta S = V \cdot \Delta t = 20 \cdot 5 = 100 \text{ m}$$

