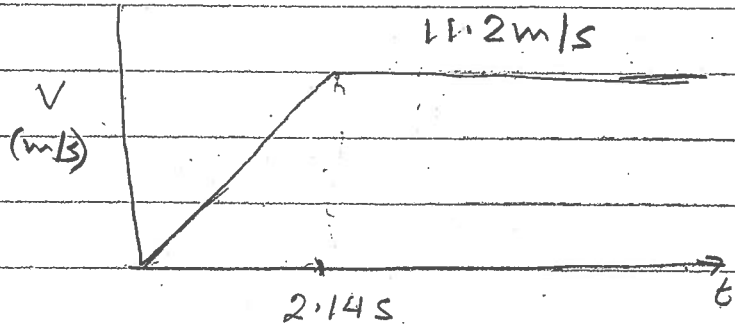


2-29

Total travel

= 100m.



$$\text{acceleration } \vec{a} = \left(\frac{11.2}{2.14} \right) \text{ m/s } \hat{x}$$

Distance travelled during 2.14 sec ,

$$\begin{aligned} \vec{\Delta x} &= (5.6 \times 2.14) \text{ m } \hat{x} \\ &= 12 \text{ m } \hat{x} \end{aligned}$$

He has to go 88 m at 11.2 m/s

$$\Delta t = \frac{88}{11.2} = 7.86 \text{ sec}$$

$$\text{Total time} = 2.14 + 7.86 \text{ sec} = \underline{\underline{10 \text{ sec}}}$$