

$$t_1 = 0$$

$$s_1 = +0.5 \text{ m}$$

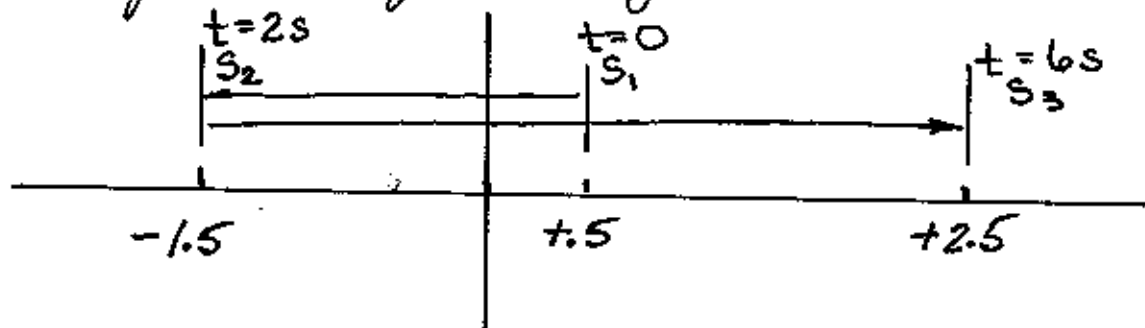
$$t_2 = 2$$

$$s_2 = -1.5 \text{ m}$$

$$t_3 = 6 \text{ sec.}$$

$$s_3 = +2.5 \text{ m}$$

? $V_{\text{avg}} \neq \text{SPEED}_{\text{avg}}$ during 6 s.



$$V_{\text{avg}} = \frac{\Delta s}{\Delta t} = \frac{s_3 - s_1}{t_3 - t_1} = \frac{(2.5 - .5)}{6 - 0} = \frac{2}{6} = \frac{1}{3} = .333 \frac{\text{m}}{\text{s}}$$

$$\text{SPEED}_{\text{avg}} = \frac{S_{\text{TOT}}}{t_{\text{TOT}}} = \frac{|s_3 - s_2| + |s_2 - s_1|}{6}$$

$$\frac{|2.5 - (-1.5)| + |-1.5 - .5|}{6} = \frac{4 + 2}{6} = 1 \frac{\text{m}}{\text{s}}$$