

ES 2

$$v = 574,8 \text{ km/h} = \frac{574,8 \times 1000 \text{ m}}{3600 \text{ s}} = 159,7 \frac{\text{m}}{\text{s}}$$

$$\Delta s = 100 \text{ m}$$

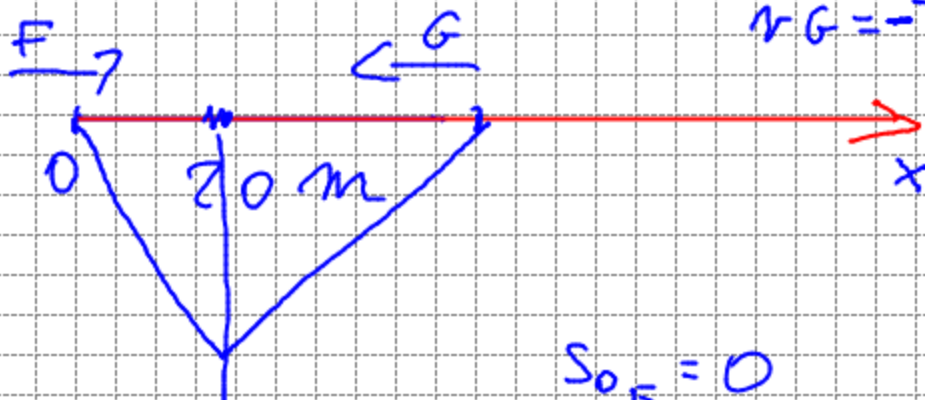
$$v = \frac{\Delta s}{\Delta t}$$

$$159,7 \frac{\text{m}}{\text{s}} = \frac{100 \text{ m}}{\Delta t}$$

$$\Delta t = \frac{100 \text{ m}}{159,7 \frac{\text{m}}{\text{s}}} = 0,63 \text{ s}$$



Es 3



$$v_F = 3 \text{ m/d}$$

$$v_G = -2 \text{ m/d}$$

$$s_{0F} = 0$$

$$s_{0G} = 20 \text{ m}$$

Stipino: $s_F = v_F \Delta t + s_{0F}$

Giulio: $s_G = v_G \Delta t + s_{0G}$

Si incontrano $s_F = s_G$

$$\begin{cases} s_F = 3 \cdot \Delta t \\ s_G = -2 \Delta t + 20 \\ s_F = s_G \end{cases}$$

$$\begin{cases} s_F = 3 \Delta t \\ 3 \Delta t = -2 \Delta t + 20 \\ s_F = s_G \end{cases}$$

$$\begin{cases} s_F = 3 \Delta t \\ s_{\Delta t} = 20 \\ s_F = s_G \end{cases}$$

$$\begin{cases} s_F = 12 \\ \Delta t = 4 \\ s_F = s_G \end{cases}$$

$$\begin{cases} \Delta t = 4 \\ s_F = 12 \\ s_G = 12 \end{cases}$$

$$s_{\text{percorsso}} = s_{\Delta t} - s_G$$

20 -