TAREA 2

P1

$h = 6\,ft$

$v = 0.9c$

a) $h = 6\,ft$

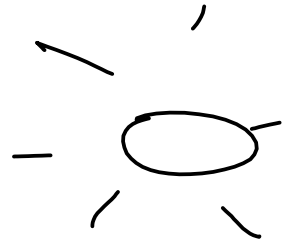
b) $\ell = \frac{(6\,ft)}{\gamma} = 6\,ft\sqrt{1-0.9^2} = 2.62\,ft$

P2

B

0.6c

A



A: $\ell = (12L_y)\sqrt{1-v^2/c^2} = 9.6L_y$.

$\frac{9.6L_y}{0.6c} = 16y \longrightarrow 32\,y$ v.r.

B: $\frac{12 s}{0.6 c} = 20 s \rightarrow 40 s$ V.V.

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ida $T_1 = t \cdot \sqrt{\frac{1-v/c}{1+v/c}} = 2 s/seg$

$t = 1 s$

vuelta $T_2 = 2 s \sqrt{\frac{1+v/c}{1-v/c}} = \frac{1}{2} s/seg.$

A: ida $\rightarrow 16 s.$

$\frac{16 s}{2 s/seg} = 8 segs.$

Vuelta: 16 s

$\frac{16 s}{0.5 s/seg} = 32 segs.$

40 segs

B: ida $\rightarrow$ 20 s 12 s

$\frac{32 s}{2 s/seg} = 16 segs.$

Vuelta: 8g

$$\frac{8g}{0.5g/sem.} = 16\,semanas.$$

Total 32 semanas. !