

PROBLEMA 2

$$m = 1200 \text{ kg}$$

$$v = 130 \text{ km/h} \rightarrow 36,11 \text{ m/s}$$

$$F = 3000 \text{ N}$$

$$t = ? \quad s = ?$$

$$a = \frac{F}{m} = \frac{3000 \text{ N}}{1200 \text{ kg}} = 2,5 \text{ m/s}^2$$

$$v_0 = at \rightarrow t = \frac{v_0}{-a} = \frac{36,11 \text{ m/s}}{2,5 \text{ m/s}^2} = -14,44 \text{ s}$$

$$s = 26 \text{ m} = 521,43 \text{ m} = 260,43 \text{ m}$$

A.C.

$$\begin{array}{l} \text{MAYOR} \quad a=0 \\ \left\{ \begin{array}{l} S = S_0 + v_0 t + \frac{1}{2} a t^2 \\ v = v_0 + a t \end{array} \right. \end{array}$$