

Fantomas, Lus de Funus a Žán Maré

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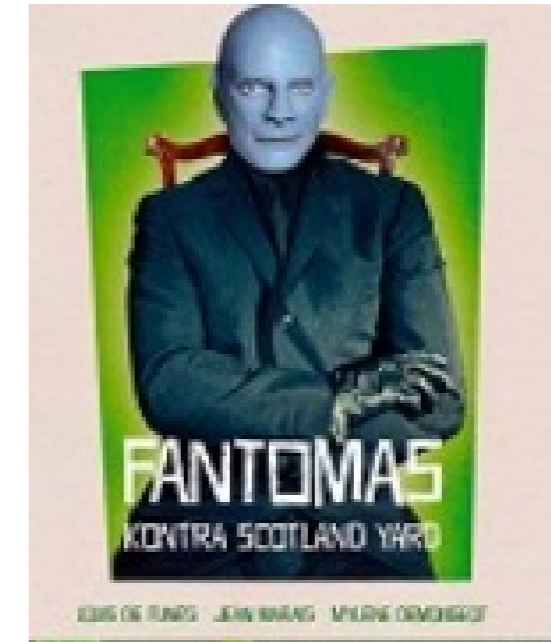
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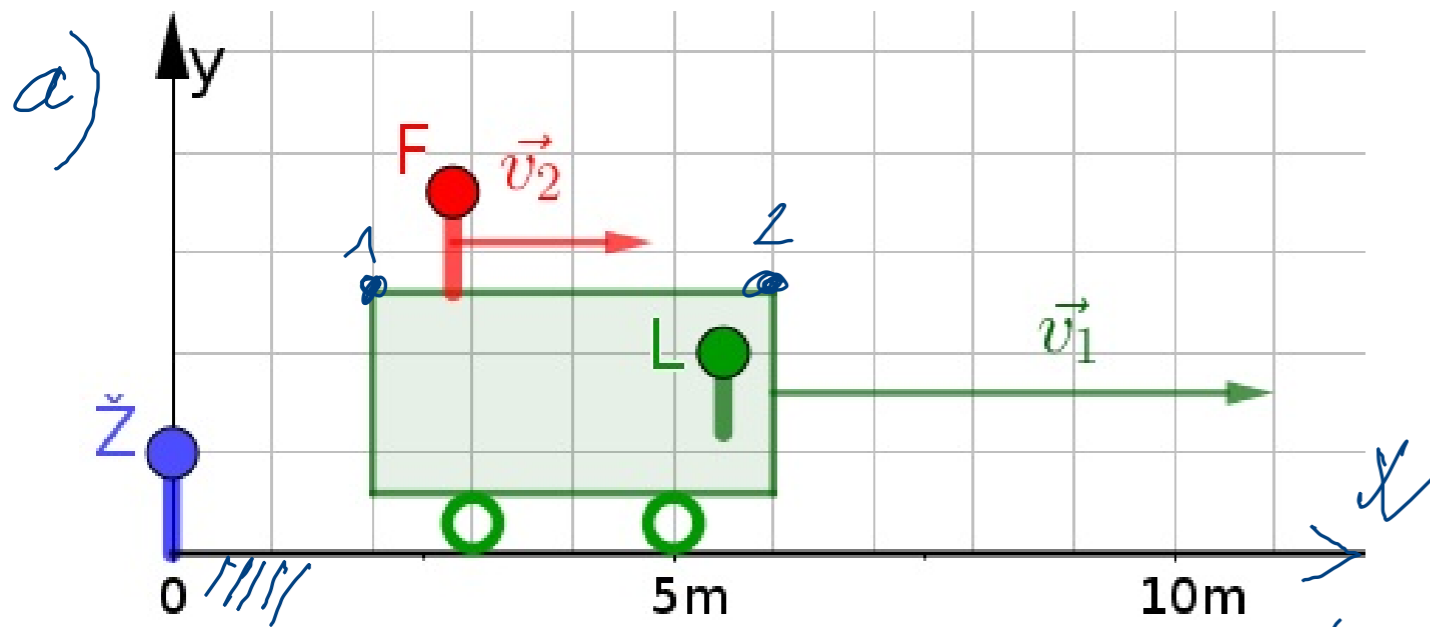
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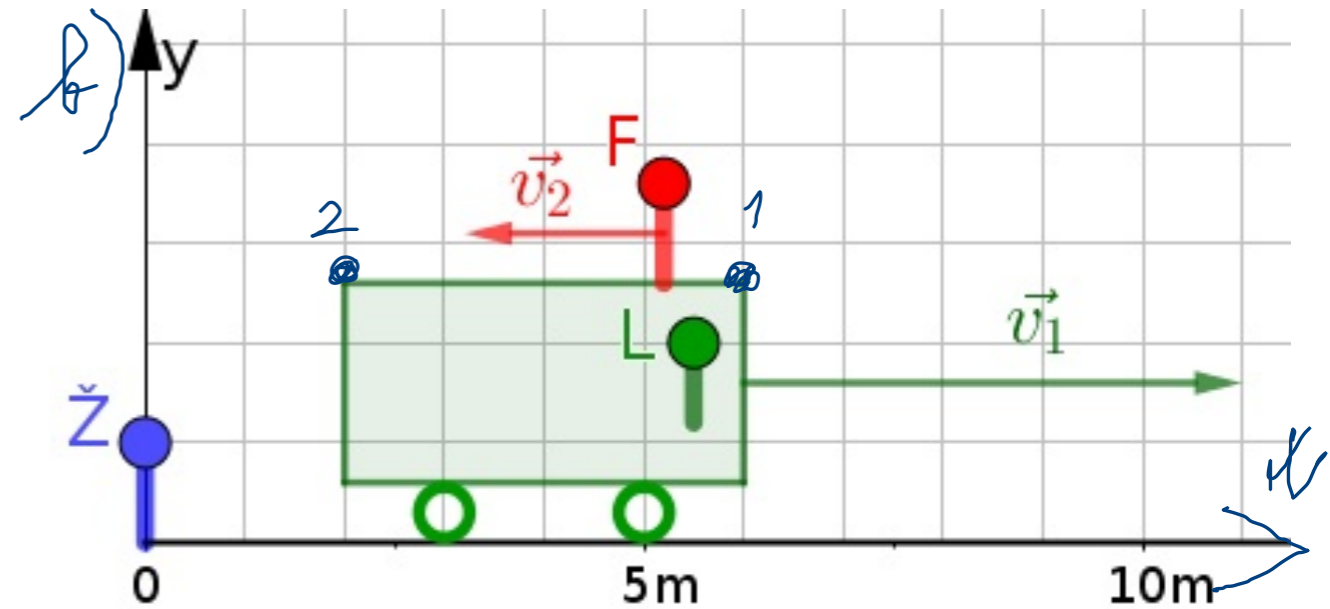
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$$v_1 = 5 \frac{m}{s} \rightarrow \text{vůči } \checkmark$$

$$v_2 = 2 \frac{m}{s} \rightarrow \text{vůči } L$$

$$d = 4m$$

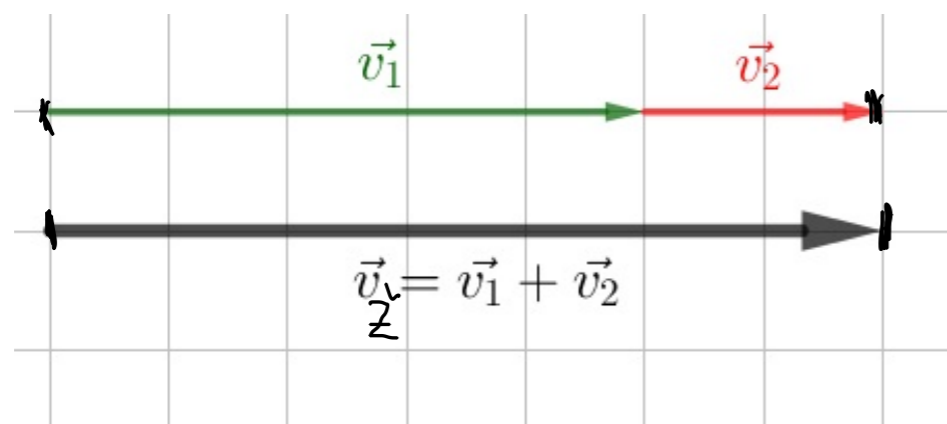
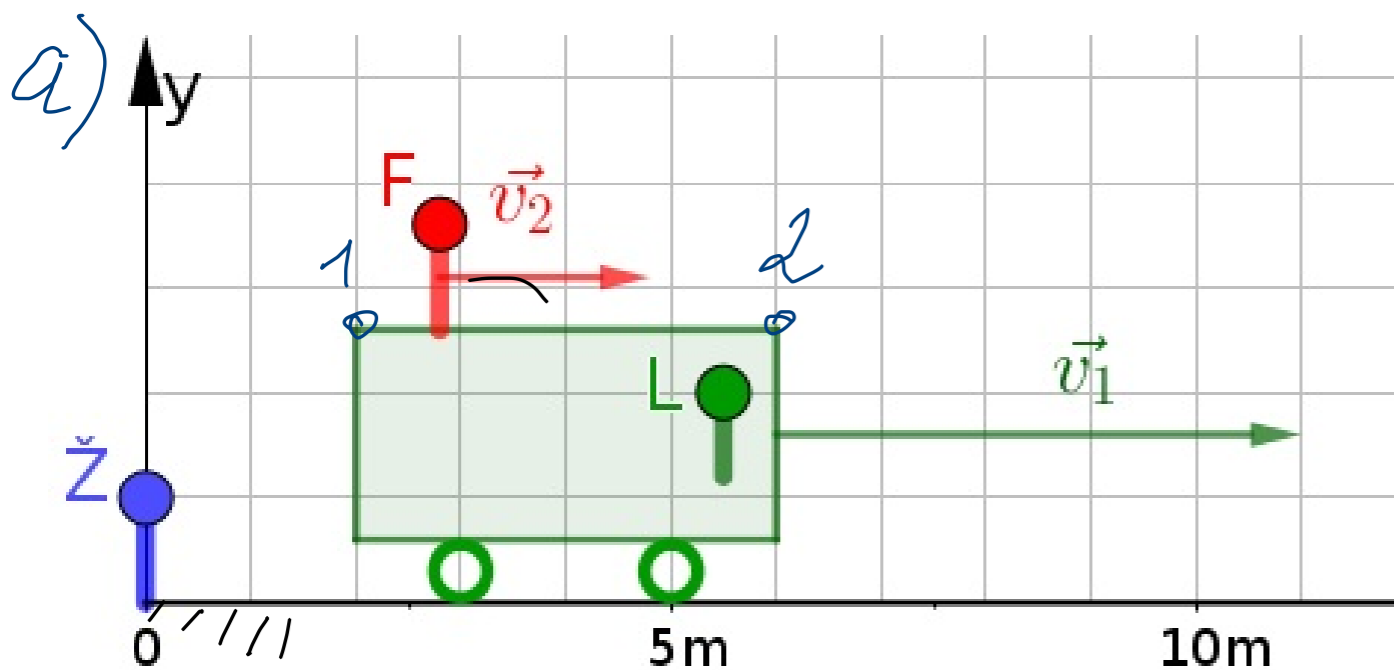


$$1) t = ? \quad (1 \rightarrow 2)$$

$$2) a_L = ? \quad - || -$$

$$3) v_{\checkmark} = ? \quad - || -$$

$$4) a_{\checkmark} = ? \quad - || -$$



$$\vec{v}_z = \vec{v}_1 + \vec{v}_2$$

$$|\vec{v}_z| = v_z = v_1 + v_2$$

$$t = \text{abs! (KNF)}$$

$$t = \text{relat. (TRV)}$$

- 1)  $t = ?$  (1  $\rightarrow$  2)
- 2)  $\Delta_L = ?$  -||-
- 3)  $v_z^v = ?$  -||-
- 4)  $\Delta_z^v = ?$  -||-
- 5)  $s_z^v$  (autob.)

$$v_1 = 5 \frac{\text{m}}{\text{s}} \rightarrow \text{vůči } z$$

$$v_2 = 2 \frac{\text{m}}{\text{s}} \rightarrow \text{vůči } L$$

$$d = 4\text{m}$$

$$1) t = \frac{d}{v_2} = \frac{4}{2} = \boxed{2\text{s}}$$

$$2) \Delta_L = d = 4\text{m}$$

$$3) v_z^v = 5 + 2 = 7 \left[ \frac{\text{m}}{\text{s}} \right]$$

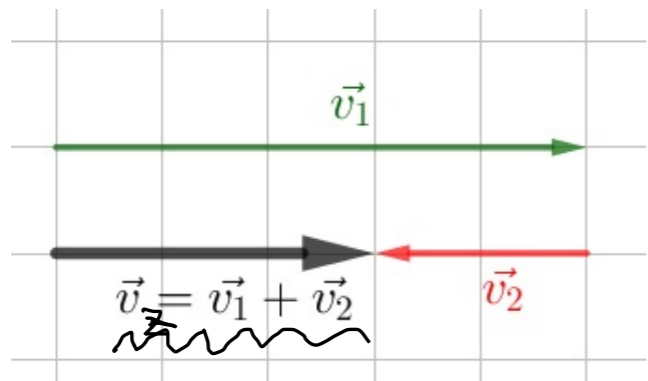
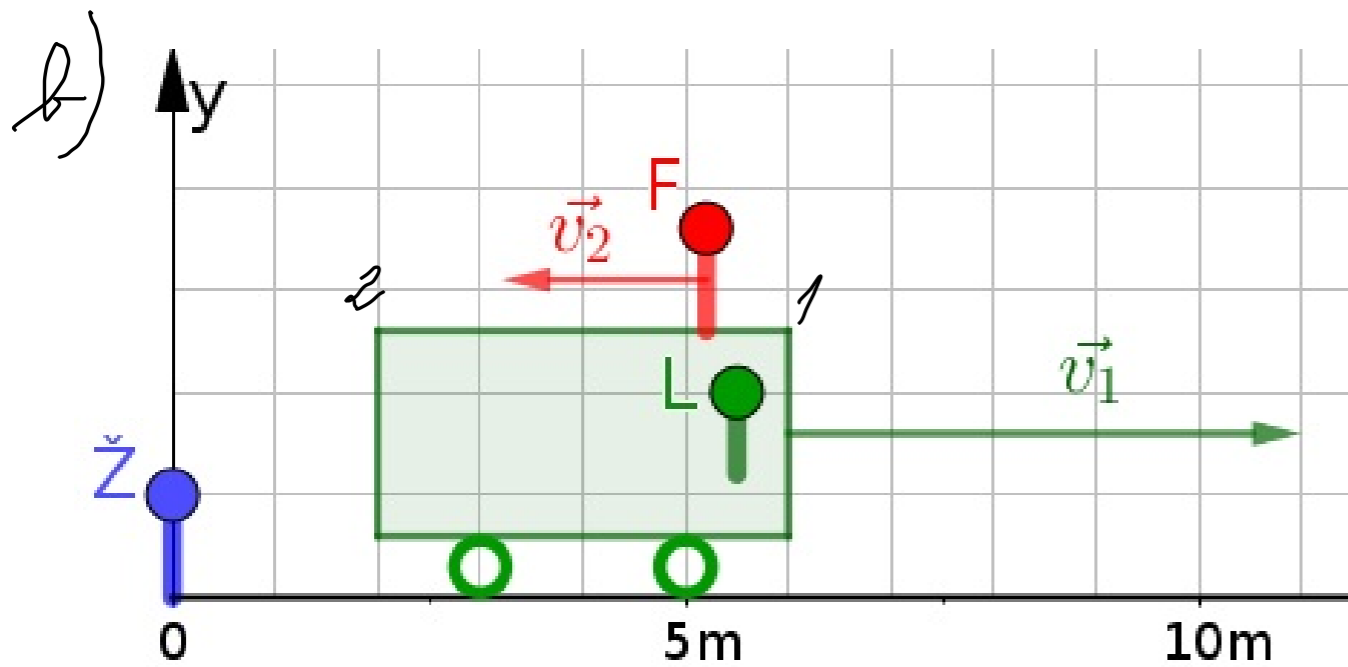
$$4) \Delta_z^v = \text{rychl.} \cdot \text{čas}$$

$$\Delta_z^v = v_z^v \cdot \Delta = (v_1 + v_2) \Delta$$

$$5) \Delta_z^v = 7 \cdot 2 = 14 [\text{m}]$$

$$\Delta_z^v(\text{aut.}) = v_1 \cdot \Delta = 5 \cdot 2 = \boxed{10\text{m}}$$

OPRAVA  
(ne videti  $\frac{\text{m}}{\text{s}}$ )



$$\vec{v}_r = \vec{v}_1 + \vec{v}_2$$

$$v_{\text{rel}} = v_1 - v_2$$

$$t = \frac{d}{v_2} = \frac{4}{2} = \underline{\underline{2\text{ s}}}$$

$$A_{\text{rel}} = (v_1 - v_2) \cdot A$$

$$A_{\text{rel}} = (5 - 2) \cdot 2 = \underline{\underline{6\text{ [m]}}}$$

~~AKES~~