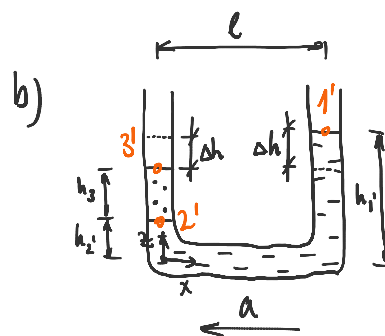
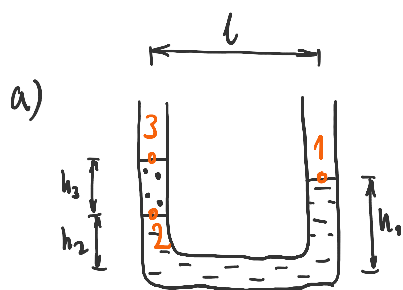


Accelerating U-pipe

2022. február 22., kedd 13:14



$$a = 3 \frac{h_3}{5^2}$$

Assignment: $h_2' + h_3 = ?$

Inertial force field's potential:

Take care of the sign!

Eg.: accelerating car



acceleration: \rightarrow

force field: \leftarrow

potential: \rightarrow

$$U = ax$$

$$a > 0$$

braking car



acceleration: \leftarrow

force field: \rightarrow

potential: \leftarrow

$$U = ax$$

$$a < 0$$

Handling multiple force fields:

$$U_1 = gz_1 + ax_1$$

\uparrow \uparrow
 gravitational inertial