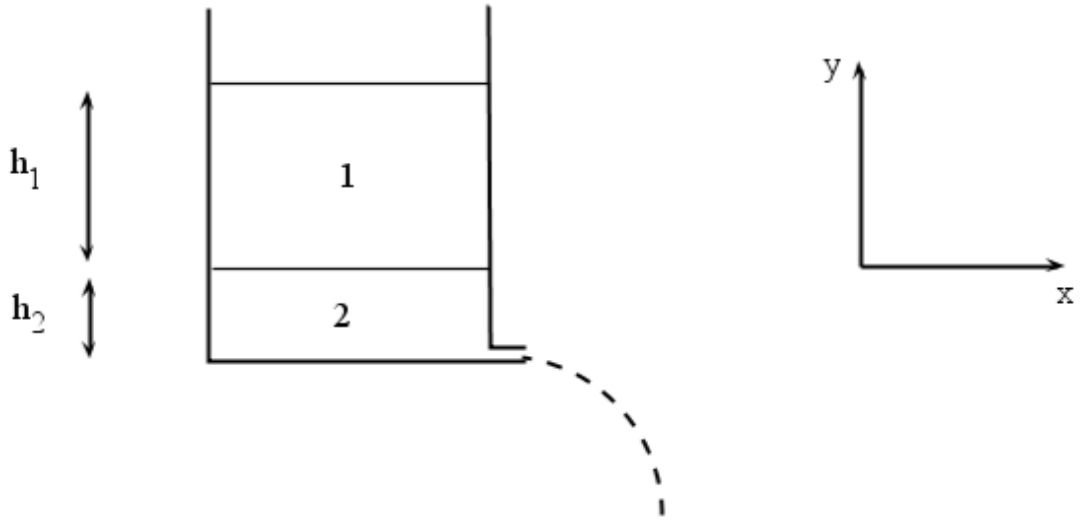

A big tank is filled with two liquids of different densities. Liquid 1 has density $\rho_1 = 900kg/m^3$ while liquid 2 has density $\rho_2 = 1000kg/m^3$. The height of liquid 1 is $h_1 = 4m$, the height of liquid 2 is $h_2 = 1m$.
Near the bottom of the tank there is a very small opening from which liquid 2 is flowing out. As you know, the trajectory of the flowing liquid is a parabola.
Assuming that the opening has coordinates $x_0 = -7m$ and $y_0 = -1m$, calculate the equation of the parabola.