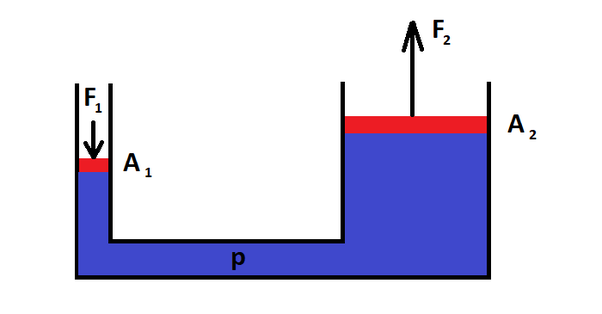
# 



Since we have:

Pascal’s principle:

Equation of continuity:

Bernoulli’s equation:

Given that:

We have:

temperature at the point which is 20 cm from the hot end

Given that: