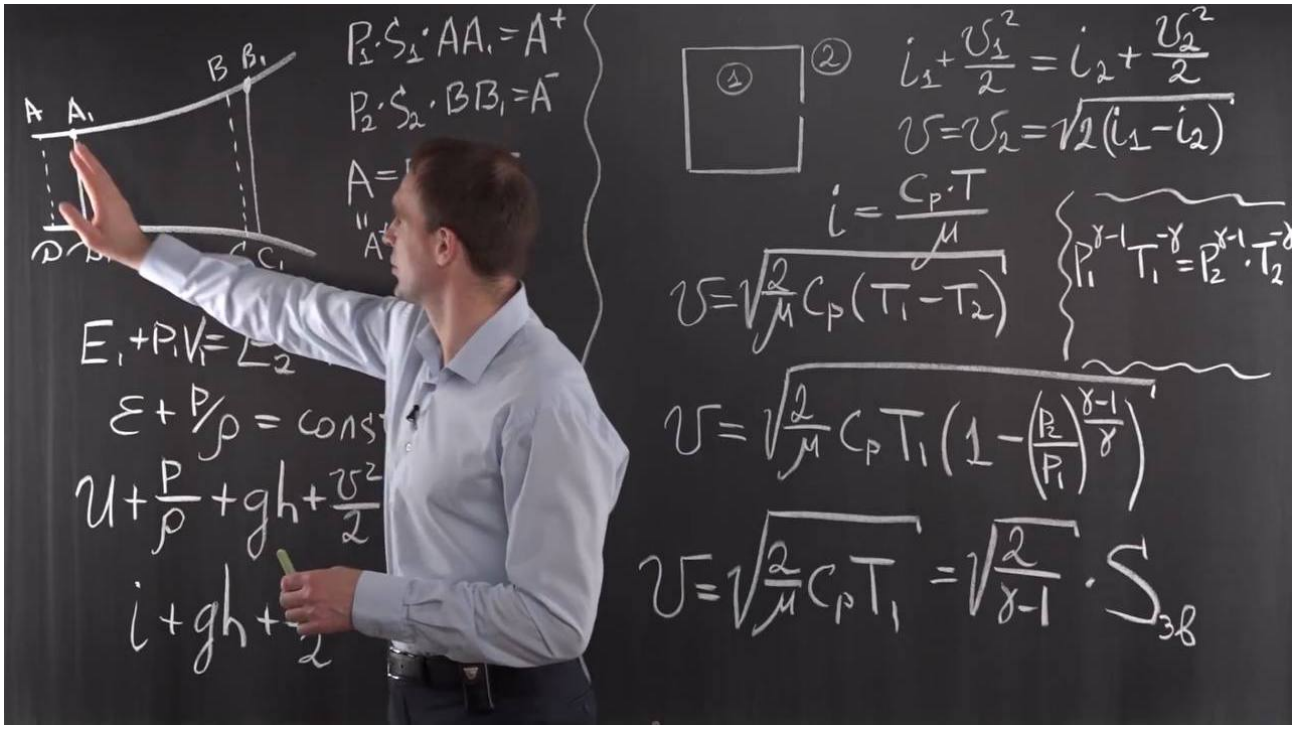
## Hint 1


A A1 B B1
P1·S1·AA1=A+
P2·S2·BB1=A−
E1+P1V1=E2
ε+P/ρ=const
U+P/ρ+gh+υ²/2
i+gh+
1
2
i1+υ1²/2=i2+υ2²/2
υ=υ2=√2(i1−i2)
i=Cp·T/μ
υ=√(2/μ Cp(T1−T2))
P1^(γ−1) T1^(−γ)=P2^(γ−1)·T2^(−γ)
υ=√(2/μ Cp T1(1−(P2/P1)^((γ−1)/γ)))
υ=√(2/μ Cp T1)=√(2/(γ−1))·S3B