Dot (Hw 2003, 6, 3) 
$$T_2$$

The solution of heat of particles

The not uniform

Mechanical equilibrium:  $P = n + T = const$ 

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The solution of the particles

The solution of the s

$$Q = -k \frac{2T}{2y} \rightarrow k = \frac{5}{2m} k_B^2 n T = const doesn't depend 
d) Stealy state  $\rightarrow no$  flow (of heat or crything else)   
 $\rightarrow Q = const$ 

$$\rightarrow n(y) \cdot T(y) \cdot \frac{2T}{2y} = const$$$$

but 
$$n(y) T(y) = const$$

$$T = T_0 + \frac{y}{w} (T_2 - T_1)$$

wike boundary conditions

e) We are looking for 
$$\frac{1}{\sqrt{2}}$$
  $dT$ 

$$\sigma = \frac{Jy}{2y\mu} = \frac{\Omega V_{xy}}{2y\mu}$$

but 
$$p(y) = \mu_0 + p(y) \Rightarrow \partial \mu = \partial \phi = -E$$
 $j = \sigma E = -\sigma \partial \mu$ 

what we need is to replace the ST between the plates with electric field E and solve for Biltzmans ey. see 9.003.