Assumption (i) requires Boltzman gas on LHS, ie. Va. Na << (100) > Na (2012) 3/2 << 1 (1) > /RT>> 200 t 2 /3 / Lat) 2/3 / again we can plug in La from sec (a) for a final result) WT >> 20th (Mont) (95/2(1)) 2/3 ma >> (95/2(1)) 2/3 C) (La = Na hol) L4 1/40 we move the portition so that Lb=Lb-X, La=La+X wife X <= 1, now the net force is F = Nakt - Nakt ~ Nakt (1-X -1) = Nakt X

La+X - La X La (1-X -1) = Nakt X Comparing with f=- w2MX W2 = Nakt mass of partition.