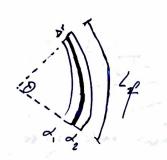
Froblem Lef Thysics 50 Tevs mkg Tz = P. mkg Tz Therefore, P. m. T. n. T. nergy must be consumed so n, to the next of (n, + n) for F $\frac{1}{F} = \frac{n_1 T_1 + n_2 T_2}{\left(n_1 + n_2\right)}$

P(2v) = $(n_1 + n_2) k_B \left(\frac{n_1 T_1 + n_2 T_2}{n_1 + n_2} \right)$ $\int_{a}^{b} \frac{m_{1}l_{1} + m_{2}l_{2}}{2} ds$

Fredhen 1

If then theren quillbrian is reads, pursure is the mif = map = - Ipil Tove upto To Therefore to draw molecules from A to B is given by $\Delta n = n - n, f = n - \frac{PV}{\sqrt{PV}}$ $n_1 - \left(\frac{n_1 T_1 + n_2 T_2}{2T_p}\right)$ M, - 1 (n, T, + m2 T2) (n, + m2 T2) n, = 1/2 (n, + n2 = 1 n, + n, gas makeules A

Froblem 2



6+ dl = 6+ 26,0T

Al, = d, L. ST

L+ de lo + de losT

= 4(1+2,DT)

De a de sT > 11,

In I such that we light between α_i ? α_2 Afters by $2\pi \left(\frac{\partial}{360}\right)$ vs. $2\pi \left(+\Delta r\right) \left(\frac{\partial}{360}\right)$?

= ((1+2,DT)

Life 6+ 2, 6, ST = Zar (3) => 8= 180/6+ 2, 6 ST)

Left = Lo + d, Lo DT = 2 (r+Dr) (300) = D = 180 (Lo + d, Lo DT)

(r+Dr) G

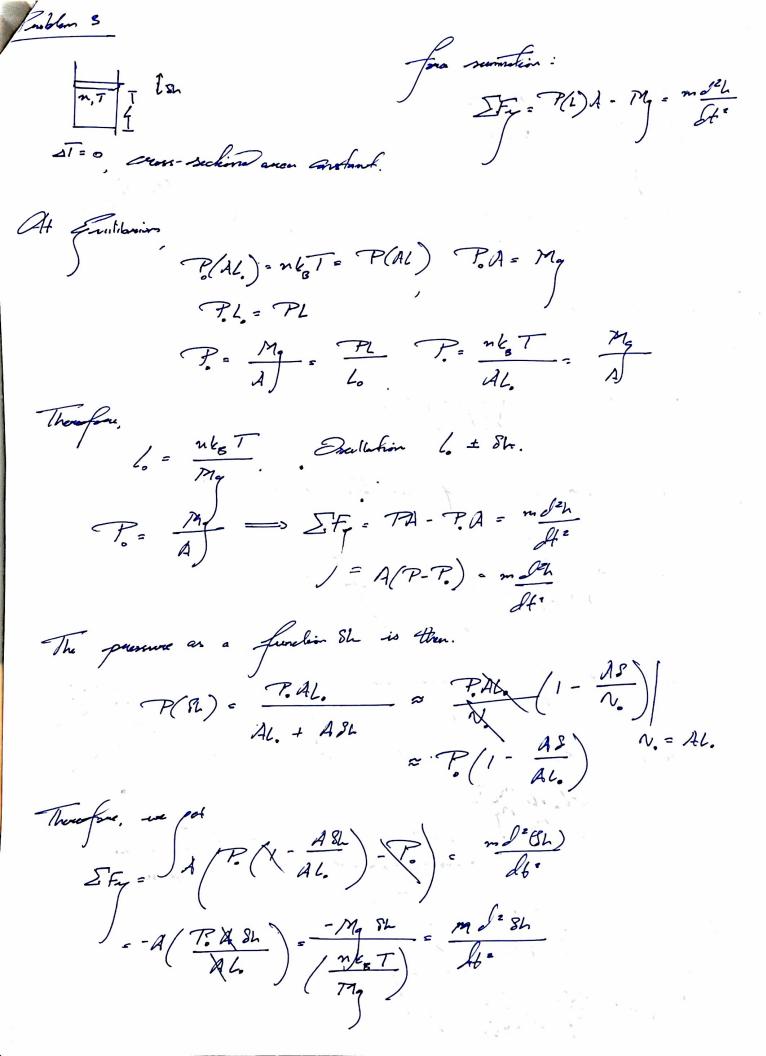
6+ 2, 6, 5T

Therefore, (b+d, L, DT) Dr) =-1

180 (hat d, Lo ST)

Simplifier,

$$\frac{\partial E}{\partial t} = \frac{180 \left(l_0 + d_1 l_0 \Delta T \right)}{16 + d_1 l_0 \Delta T} = \frac{180 \left(l_0 + d_1 l_0 \Delta T \right)}{16 + d_1 l_0 \Delta T} = \frac{180 \left(l_0 + d_1 l_0 \Delta T \right)}{16 + d_1 l_0 \Delta T} = \frac{l_0 \Delta T}{l_0 + d_1 l_0 \Delta T} = \frac{l_0 \Delta T}{l_0 + d_1 l_0 \Delta T} = \frac{l_0 \Delta T}{l_0 + d_1 l_0 \Delta T} = \frac{l_0 \Delta T}{l_0 + d_1 l_0 \Delta T} = \frac{l_0 \Delta T}{l_0 \Delta T} \left(l_0 + d_1 l_0 \Delta T \right) = \frac{180 \left(l_0 + d_1 l_0 \Delta T \right)}{l_0 \Delta T} = \frac{180 \left(l_0 + d_1 l_0 \Delta T \right)}{l_0 \Delta T} = \frac{180 \left(l_0 + d_1 l_0 \Delta T \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 - d_1 \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T} = \frac{180 \left(l_0 \Delta T \left(l_0 \Delta T \right) \right)}{l_0 \Delta T}$$



(MET) MOYSL)

(MET)

(Met) $-\frac{1}{nt} = \frac{1^2(8h)}{dt^2}$ The fine Afficiented equation: $\frac{\int_{32}^{2} (8h)}{\int_{32}^{2}} + \left(\frac{1}{n k_{B}T}\right) 8h = 0$ Therefore the angular frequency of the black M: The solution of the offerente qualis-8h(t) = G(ox(wt) + G sin(wt) 8h(0)= (= E-L. L min T released from rest. Sh(b) = Dos the T Sho= (1 - mkgT / J -t)