

a) [4]

6)3

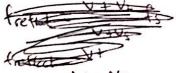
Problem 2:

[] VT

VTZVP

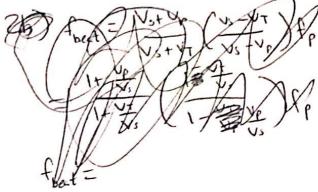
France S

fr= VEVS fs



freeze = V-VT fg

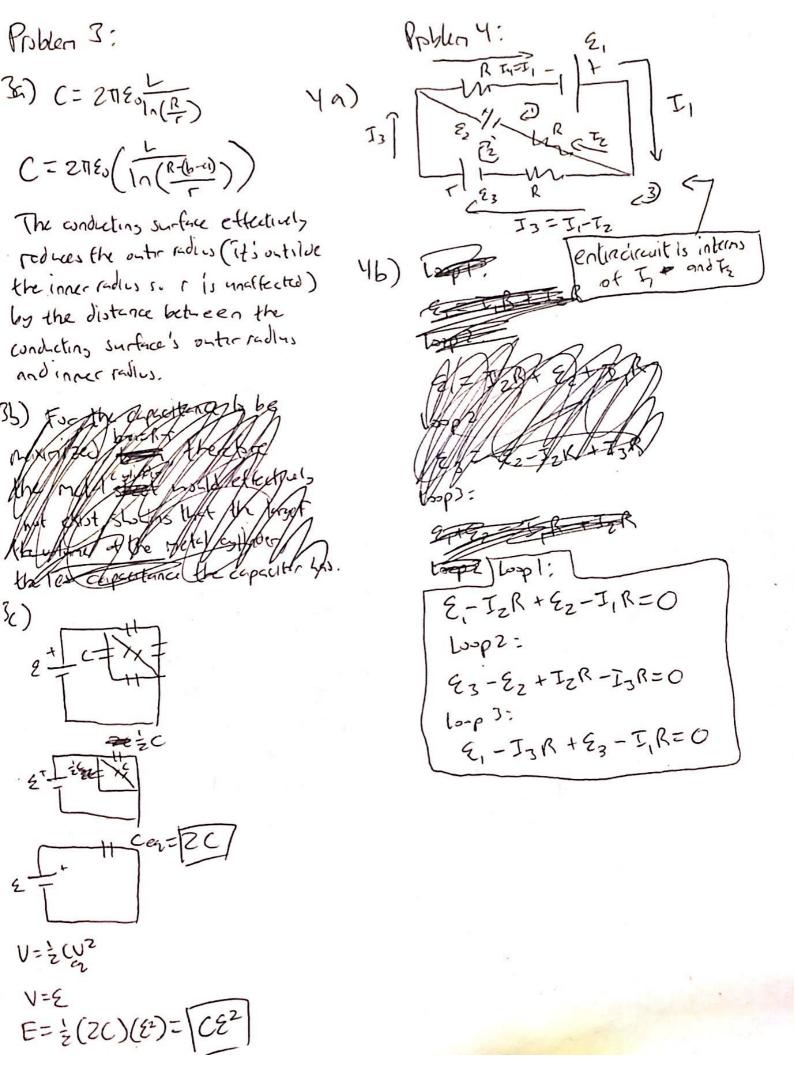
(signs show the truck is moving any

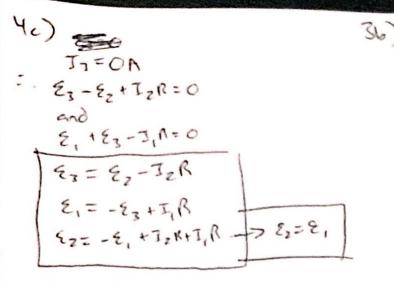


2b) focat = $|f_{p'} - f_{p}|$ $= \left[\frac{V_{s} + V_{p}}{V_{s} + V_{T}} \left(\frac{V_{s} - V_{T}}{V_{s} - V_{p}}\right) - 1\right] f_{p}$ $= \left[\frac{1 + \frac{V_{s}}{V_{s}}}{1 + \frac{V_{T}}{V_{s}}} \left(\frac{1 - \frac{V_{s}}{V_{s}}}{1 - \frac{V_{p}}{V_{s}}}\right) - 1\right] f_{p}$

[(1+2;)(1-2;)-1] =[fr

They are static relative to each other. Puck to the pollee car is the same as played from the pollector and there is no beat frequency.





36) Capacitana is makinized when B b=R and a= F, therebre

the appellance is at greater
when the volune of the notal
cylinder is obsert to the wilne
of the gap between the
cylindrical capacitor.

Find Tz Tz=J, if Is=OA $g_z = -g_1 + Z_2 + T_2 + T_2 + T_3 + T_4 + T_5 + T_5 + T_6 + T_6$

towards apper let

$$\frac{2\xi_1}{2R} = \frac{\xi_1}{R}$$