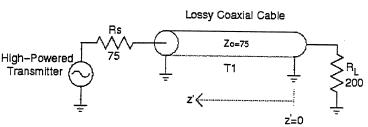
€ e 450Mhz

A high-powered transmitter is attached to the end of a 1001 country non-zero R and G parameters. The cable has  $v_p = 0.7c$  and is shorted at its end.  $\lambda = \frac{(0.7)(300 \times 10^6)^{\frac{M}{5}}}{450 \times 10^6} = .4667m$ 



a) Starting from the load, at what points on the line would it be most likely that a conductor could melt due to excessive current conditions?

Since A resistive loss greater than 20 is the loss, the voltage maximum + current minimum will be At the loss. Thus // Away the current maximum will occur. That is where conductor melting would occur. This is 0.1167 meters from the 10AD.

b) Starting from the load, at what points would it be most likely for dielectric breakdown to occur?

First since a vollage max is at the loss, breakdown could occur there is well as every 1/2 or .2334 metrs

c) every 1/2 you may see dange on evy, 2334 m