1. What is the step response (voltage on top plate of capacitor)?



- 2. Inductance of a PCB Trace over a ground plane:  $L \approx l\left(\frac{\mu_0\mu_rh}{w}\right)$ 
  - Height above ground plane: h = 3mil
  - Width of trace: w = 5mil
  - $\mu_0 \approx 1.26 \times 10^{-6} \text{ H/m}$
  - $\mu_r \approx 1.0$

Per centimeter of PCB trace, how much inductance?



