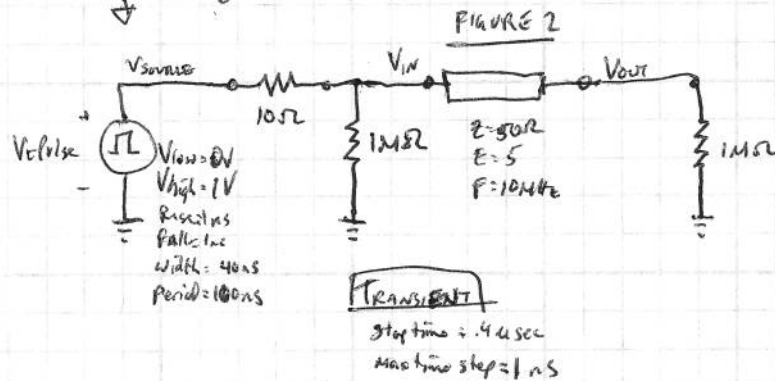
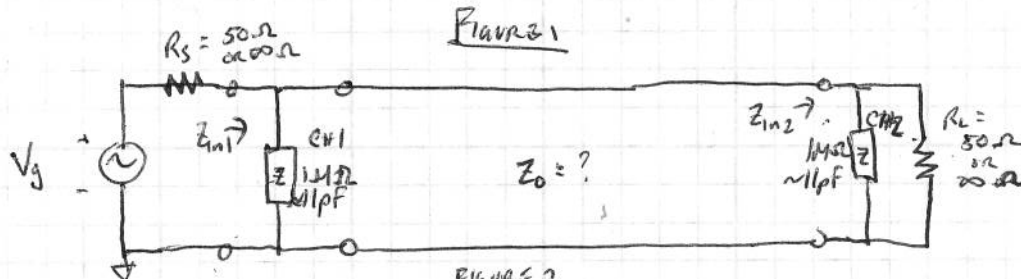
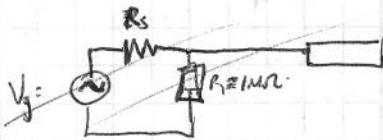


3-0235 — 50 SHEETS — 5 SQUARES
 3-0236 — 100 SHEETS — 5 SQUARES
 3-0237 — 200 SHEETS — 5 SQUARES
 3-0137 — 200 SHEETS — FILLER

COMET



THE SOURCE RESISTANCE IN FIGURE 1 HAS EITHER 50 OR INFINITE ~~OHMS~~ OHMS WHEREAS FIGURE 2 HAS A 10Ω SOURCE-LIKE IMPEDANCE. THE INPUTS TO THE FUNCTION GENERATOR HAVE 1MΩ (11pF) RESISTANCES WHICH ARE COMPARABLE TO THE 10MΩ RESISTORS IN FIGURE 2. THE T-LINE (LONG COAX) IN FIGURE 1 HAS AN UNDETERMINED CHARACTERISTIC IMPEDANCE SINCE WE ARE NOT GIVEN WHAT TYPE OF COAX IS USED; ASSUMING 50 (RG-58) OHM COAX THEY WOULD BE THE SAME, THESE FIGURES WOULD BE CLOSE TO THE SAME IF IN FIGURE 1 WE CHOOSE TO SET THE FUNCTION GENERATOR TO 50Ω SOURCE IMPEDANCE AND LEAVE THE OTHER END OF THE T OPEN SO THE RESISTANCE SEEN AT THE LOAD IS 1MΩ.

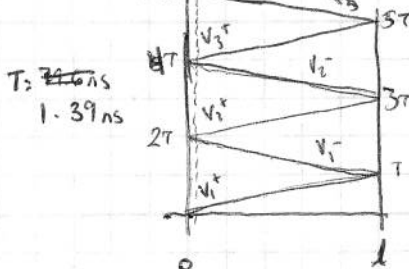
CALCULATIONS

$$BL = 5 \quad B = \frac{2\pi}{\lambda}, \quad \lambda = \frac{4\pi}{f} = \frac{2\pi \times 10^8}{1006} = 20, \quad B = \frac{\pi}{10}$$

$$B = \frac{\pi}{T_0} \Rightarrow l = \frac{50\pi}{\pi/10} = 500$$

$$\text{PHYSICAL LENGTH} = \frac{500}{19.1} \text{ m} \approx 26.1 \text{ m}$$

$$\text{SETTLING TIME } 10T = 796 \text{ ns} = 13.9 \text{ ns}$$



$$P_L \approx 1$$

$$\Gamma_g \approx -\frac{2}{3}$$

$$V_1^+ = \frac{5}{6} V, \quad V_1^- = \frac{5}{6} V, \quad V_2^+ = \frac{10}{24} V, \quad V_2^- = \frac{10}{24} V, \quad V_3^+ = \frac{10}{24} V, \quad V_3^- = \frac{10}{24} V, \quad V_4^+ = \frac{20}{91} V, \quad V_4^- = \frac{20}{91} V$$

