An 800 m long, lossless transmission line ($Z_0 = 75 \ \Omega$, $u = 2 \times 10^8 \text{ m/s}$) is driven by a generator with an open circuit voltage of 100 [u(t)- $u(t - 3 \ \mu s$)] V and a Thevenin resistance of 50 Ω . It is terminated by a 125 Ω resistive load. Sketch V(z = 0, 0 < t < 6T) and I(z, t = 2.25T).





