Question 1: An open-wire transmission line has R=5 Ω/m, L=5.2x10^{-8} H/m,
        G=6.2x10^{-3} mho/m and C=2.13x10^{-10} F/m. The signal frequency
         is 4 GHz. Calculate:
            (a) The characteristic impedance of the line
            (b) The attenuation and phase constants of the line.

Solution: (a) Z_0=$\sqrt{244}$ and (b) $\alpha$$\approx$0, and β=83.64

Question 2: Define Lossless transmission line.

Question 3: If the transmission line in question 1 is to be terminated with matched
            load, what will be the Z_L.