a) Total attenuation = \(20 \log_{10}\left(\frac{3V}{5V}\right)\) = -4.437 dB

loss in dB/m = \(\frac{4.437 \text{ dB}}{200 \text{ m}}\) = \(2.22 \times 10^{-2} \text{ dB/m}\)

b) In nepers/m, loss is:
\[
2.22 \times 10^{-2} \text{ dB/m} \left(\frac{0.115 \text{ Np}}{\text{dB}}\right) = 2.55 \times 10^{-3} \text{ Np/m}
\]