9.6) **Assumptions:**

- \( v = \text{speed of light} \)
- \( l = 1 \text{ km} \)
- Source switch closes at \( t = 0 \)

\[ t = \frac{l}{c} = 3.33 \mu s \]

\[ V_{\text{load}} = 707.33 \text{ KV} \]

\[ 3.33 + s = 8.33 \mu s \]

9.12) **Current at point C**

**Assumption**

Fault occurs at \( t = 0 \)

The current is interrupted at \( t = 8.33 \text{ ms} \)

\[ I = 8.33 + 2.5 = 128.8 \text{ A} \]

\[ I = 8.33 \text{ ms} \]

\[ I = 8.33 \times 128.8 \text{ A} \]