

**Chapter 9, Solution 92.**

$$(a) \quad Z_o = \sqrt{\frac{Z}{Y}} = \sqrt{\frac{100\angle 75^\circ}{450\angle 48^\circ \times 10^{-6}}} = \underline{471.4\angle 13.5^\circ \Omega}$$

$$(b) \quad \gamma = \sqrt{ZY} = \sqrt{100\angle 75^\circ \times 450\angle 48^\circ \times 10^{-6}} = \underline{212.1\angle 61.5^\circ \text{ mS}}$$