<u>Example: The Input</u> <u>Impedance of a Shorted</u> <u>Transmission Line</u>

Let's determine the input impedance of a transmission line that is terminated in a **short circuit**, and whose length is:

a) $\ell = \frac{\lambda}{8} = 0.125\lambda \implies 2\beta\ell = 90^{\circ}$

$$\ell = \frac{3\lambda}{8} = 0.375\lambda \implies 2\beta\ell = 270^{\circ}$$





