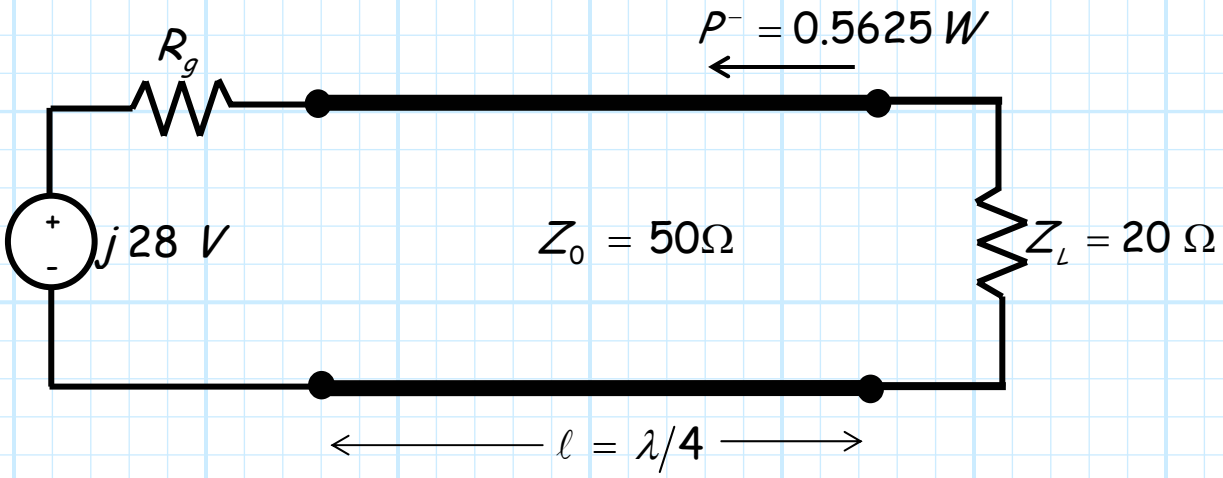
**Special Problem 2.6-10**

Consider this circuit, where the transmission line is **lossless** and has length $\ell = \lambda/4$:




The **generator impedance** is purely **real** (i.e., $Z_g = R_g + j\,0$)

The wave **reflected** from the load $Z_L$ has power of $P^- = 0.5625\ W$.

Determine the generator resistance $R_g$.

**Hint:** This is **not** a boundary condition problem. Do **not** attempt to find $V(z)$ and/or $I(z)$!