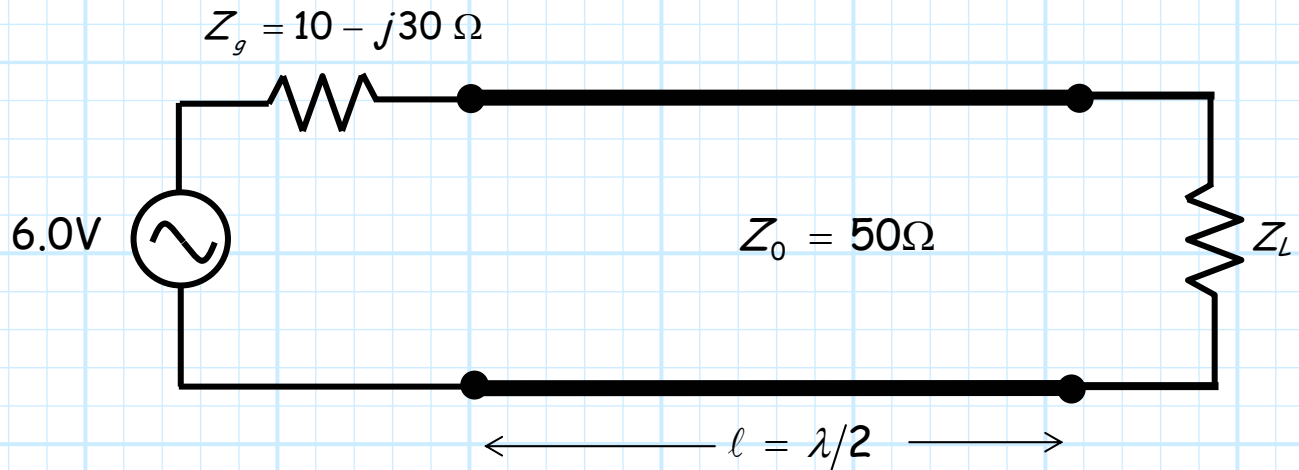


**Special Problem 2.6-4**

Consider this circuit, where the transmission line is **lossless**, and has length  $l = \lambda/2$ :



The load  $Z_L$  was selected so that the **maximum possible** amount of power is delivered by the voltage source.

Determine:

- 1) The value of load  $Z_L$ .
- 2) The power **absorbed** by  $Z_L$ .
- 3) The power **reflected** from  $Z_L$ .