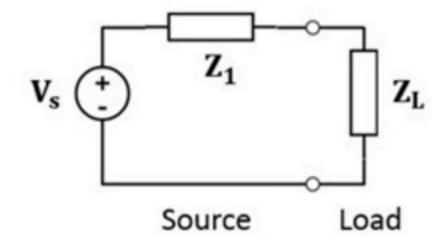
## AC power 006

## No more attempts left.

For the system below, the source is represented in phasornotation as:

$$\mathbf{Z_1} = A_1 + jB_1$$
  $\mathbf{V_S} = A_2 \cdot e^{jB_2}$ 

- (a) Find the load impedance  $\mathbf{Z_L} = A_3 + jB_3$  that results in the maximum power being received by this load.
- (b) Find the maximum average power P received by the load.



Given Variables:

A1:5 ohm

B1:4 ohm

A2:2 V

B2:75 degrees

Calculate the following:

A3 (ohm):

5

B3 (ohm):

-4

P (W):

0.1