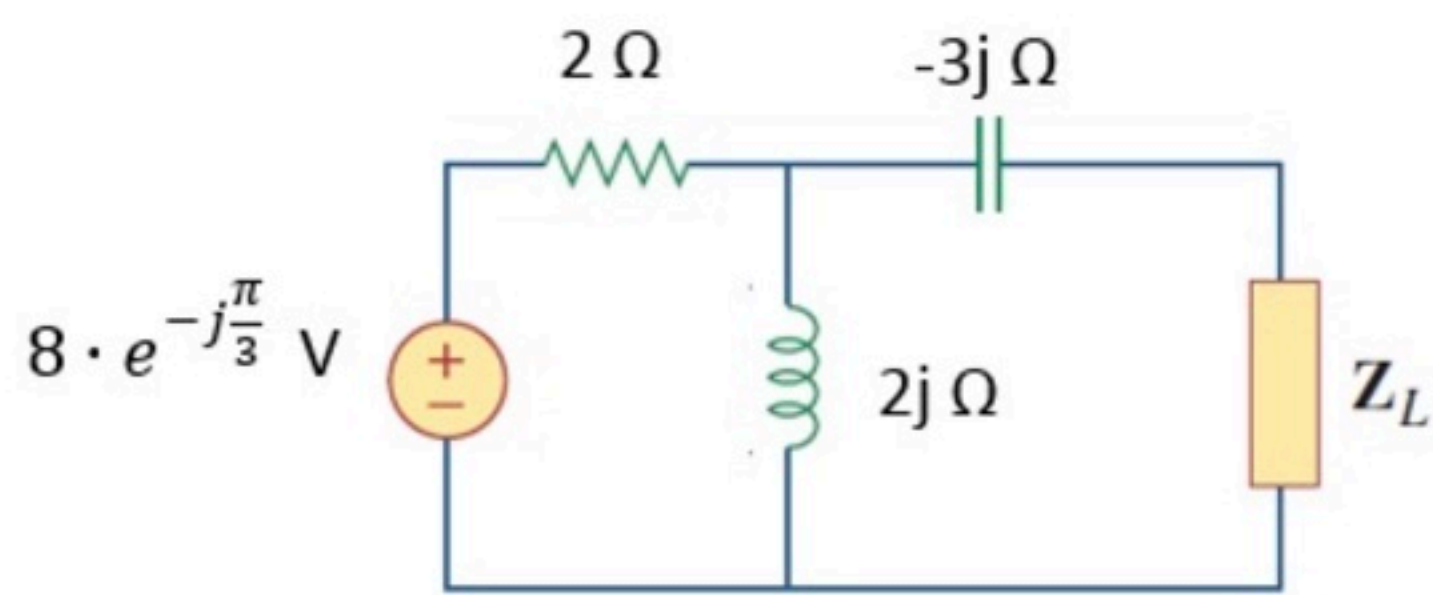# PP AC power 008

Find the value of $Z_L = a + jb$ that will receive the maximum amount of power

Find the resulting complex power $S = c + jd$ received by the load.

Given Variables:

. : . .

Calculate the following:

a (ohm) :

1 ✓

b (ohm) :

2 ✓

c (W) :

4 ✓

d (VAR) :

8 ✓

Hint: Set the independent source to zero. Find Zth.