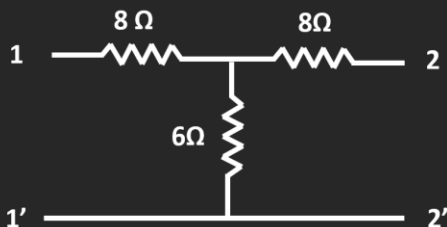


Quiz#215

For the given network, which of the following statements are true.



- 1) The network is symmetrical but not reciprocal
- 2) The network is reciprocal but not symmetrical
- 3) The network is both symmetrical and reciprocal
- 4) $Z_{11} = 14 \Omega$ and $Z_{12} = 6 \Omega$
- 5) $Z_{11} = 8 \Omega$ and $Z_{12} = 14 \Omega$

A) Only 5

C) 3 and 4

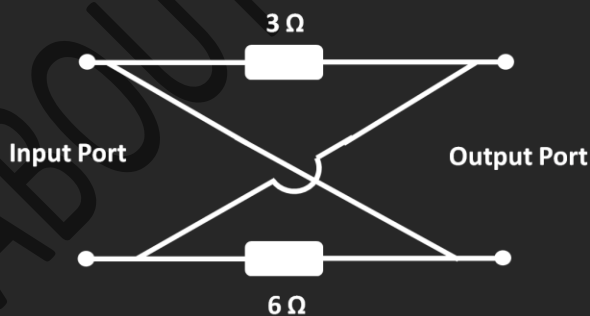
B) 2 and 5

D) 1 and 4

Answer: <https://youtu.be/Cdl-rqkuAmM>

Quiz#217

The Z- parameter matrix for the given two-port network is



A) $\begin{pmatrix} 2 & 2 \\ 2 & 2 \end{pmatrix}$

B) $\begin{pmatrix} 2 & -2 \\ -2 & 2 \end{pmatrix}$

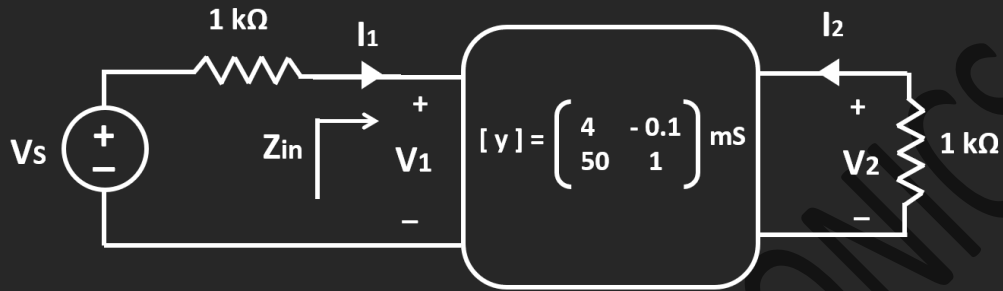
C) $\begin{pmatrix} 9 & -3 \\ 6 & 9 \end{pmatrix}$

D) $\begin{pmatrix} 9 & 3 \\ 6 & 9 \end{pmatrix}$

Answer: <https://youtu.be/WC80lfqvFjw>

Quiz#218

For the given network, the input impedance Z_{in} is



A) $86.4\ \Omega$

C) $64.3\ \Omega$

B) $153.8\ \Omega$

D) $94.3\ \Omega$

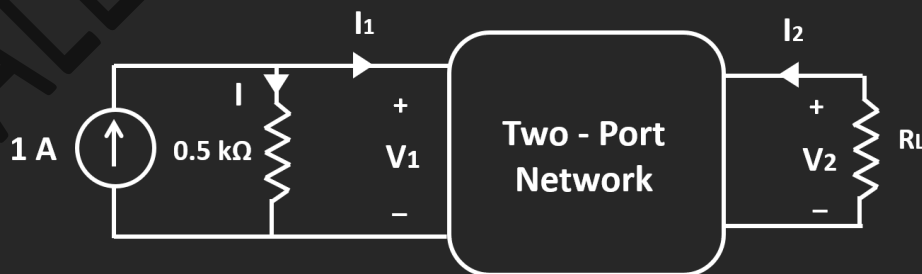
Answer: <https://youtu.be/-OHDYLU4O0M>

Quiz#220

The given network has the following Z- Parameters.

$Z_{11} = 0.1\ \text{k}\Omega$, $Z_{12} = -0.5\ \text{k}\Omega$, $Z_{21} = 1\ \text{k}\Omega$, $Z_{22} = 10\ \text{k}\Omega$

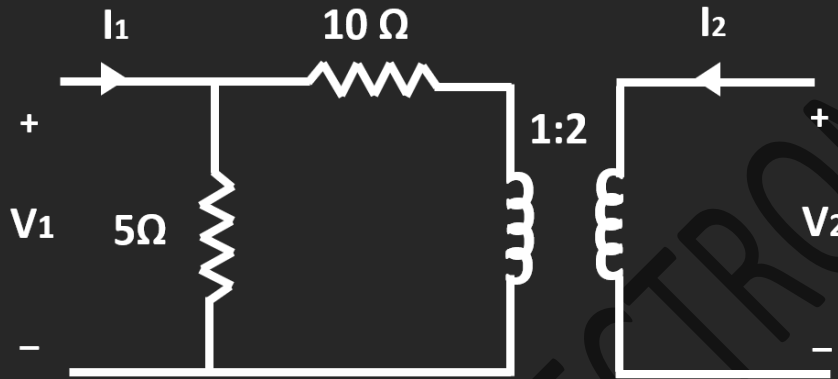
The value of R_L which would result the maximum power being delivered to it is _____



Answer: <https://youtu.be/yCdp1emJ2NM>

Quiz#231

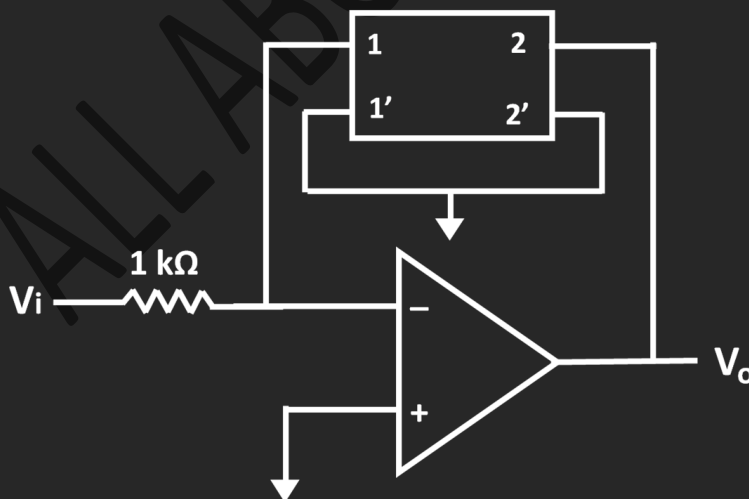
For the given circuit, assume the transformer is ideal.
The Y_{21} and Y_{22} are _____



Answer: <https://youtu.be/piT1I-wtV3I>

Quiz#239

For the given linear circuit, assume the op-amp is ideal. The Z- parameters of the two-port feedback network are $Z_{11} = Z_{22} = 11 \text{ k}\Omega$ and $Z_{12} = Z_{21} = 1 \text{ k}\Omega$.
The gain of the amplifier is



A) + 110

B) + 11

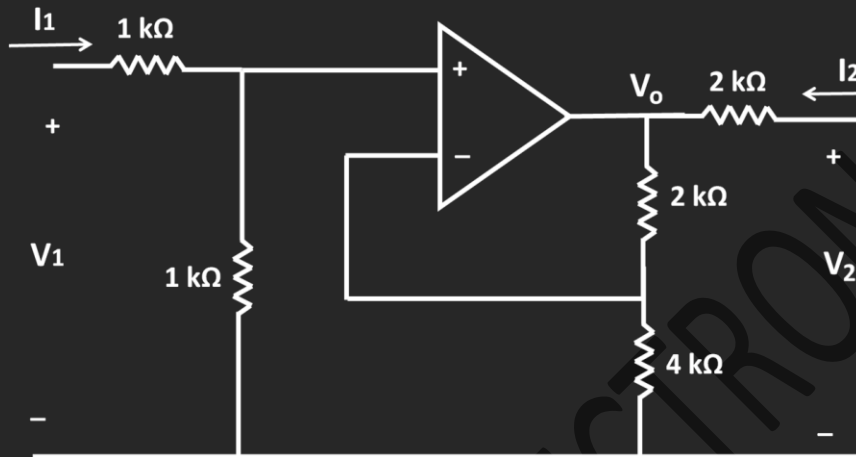
C) -1

D) - 120

Answer: <https://youtu.be/pmI00OcNuMc>

Quiz#291

For the given circuit, assume the op-amp is ideal. The Z- parameters Z_{11} , Z_{12} , Z_{21} and Z_{22} of the given circuit are _____



Answer: <https://youtu.be/y4dTjlfueAo>