## Special Problem 4.2-8

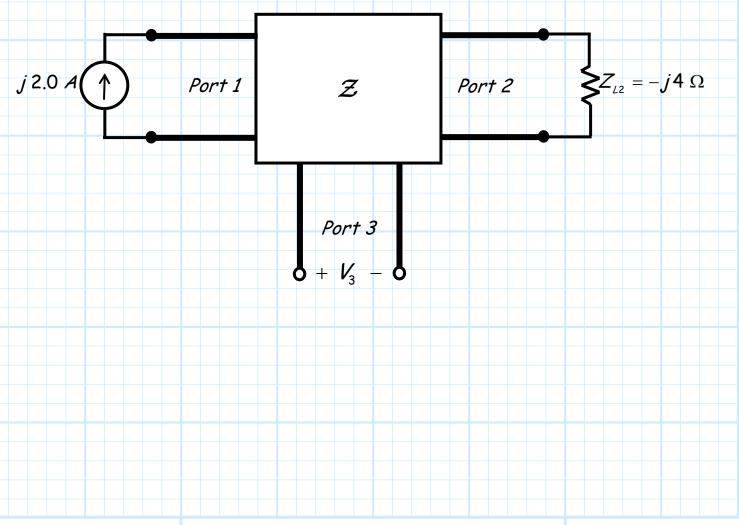
Consider a three-port network with impedance matrix:

$$\mathcal{Z} = \begin{bmatrix} 1 & 3 & j3 \\ 3 & j2 & 4 & \Omega \end{bmatrix}$$

$$j3 \quad 4 \quad -j$$

A current source is attached to port 1, an impedance  $Z_{L2}$  to port 2, and an open circuit to port 3.

Determine the value of voltage  $V_3$ .



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