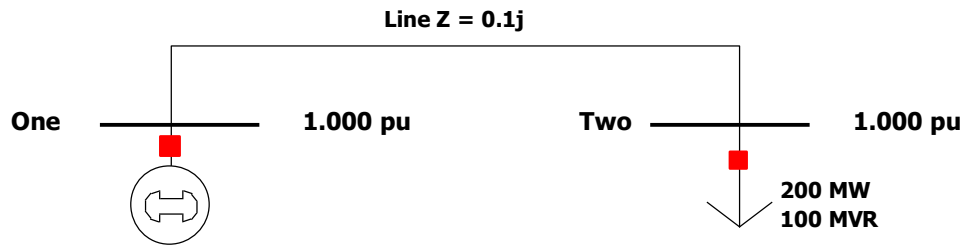


Name: _____ UIN: _____ Section: _____ Score: _____



For the system above, find the Y-bus matrix. (The transmission line does not have any resistance or capacitance modeled, and loads and generators are not generally part of the Y-bus matrix.)

$$Y_{bus} = \begin{bmatrix} -j10 & j10 \\ j10 & -j10 \end{bmatrix}$$