

EXAMPLES: POWER FLOW FORMULATION

CONSIDER THE FOLLOWING POWER SYSTEM: $S_{BASE} = 100 \text{ MVA}$



WRITE THE POWER BALANCE EQUATIONS (P AND Q).

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ANSWER:

$$\begin{cases} 2.75 + 10|\bar{V}_2|\sin\delta_2 = 0 \\ 0.34 - 10|\bar{V}_2|\cos\delta_2 + 10|\bar{V}_2|^2 = 0 \end{cases}$$