

$$\int_{1}^{1} = 62.5 - 22.5 j$$

$$\int_{2}^{1} = -10$$

$$\nabla_{1} = 112.5 + 112.5 j$$

$$\nabla_{2} = 450$$

$$U$$

$$I_{SC} = 10$$

$$08=k = \frac{|M|}{\sqrt{L_1 L_2}} \Rightarrow |M| = 0.8.7 L_1 L_2 = 0.01$$

 $\Rightarrow j 20 M = j 50.0$

$$\begin{cases} 86\sqrt{2} - 10\vec{1}_1 - (25j(\vec{1}_1 + \vec{1}_2) + j50 \cdot \vec{1}_2) = 0 \\ [25j(\vec{1}_1 + \vec{1}_2) + j50\vec{1}_2] + [100j\vec{1}_2 + 50j(\vec{1}_1 + \vec{1}_2)] + 90\vec{1}_2 \end{cases}$$

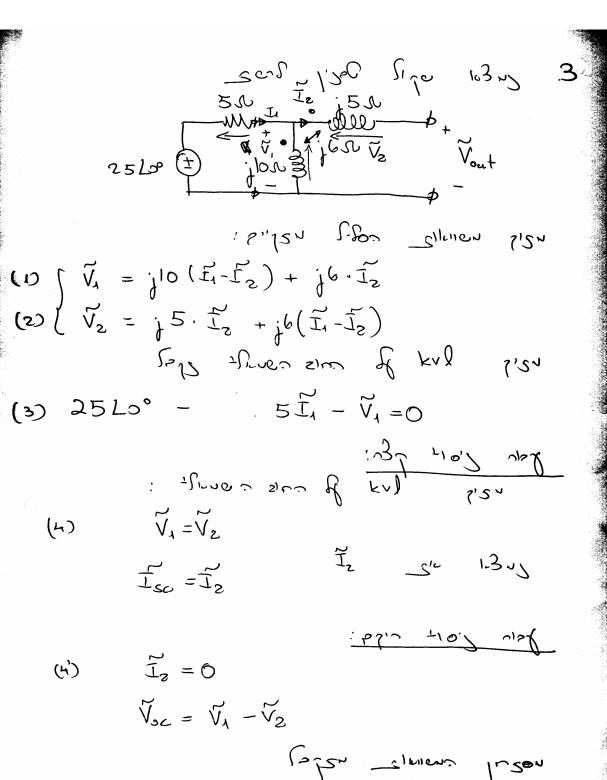
$$\int \vec{L}_{1} = 6.31 - \frac{1}{1}.17$$

$$\int \vec{L}_{2} = -1.94 - \frac{1}{1}.39$$

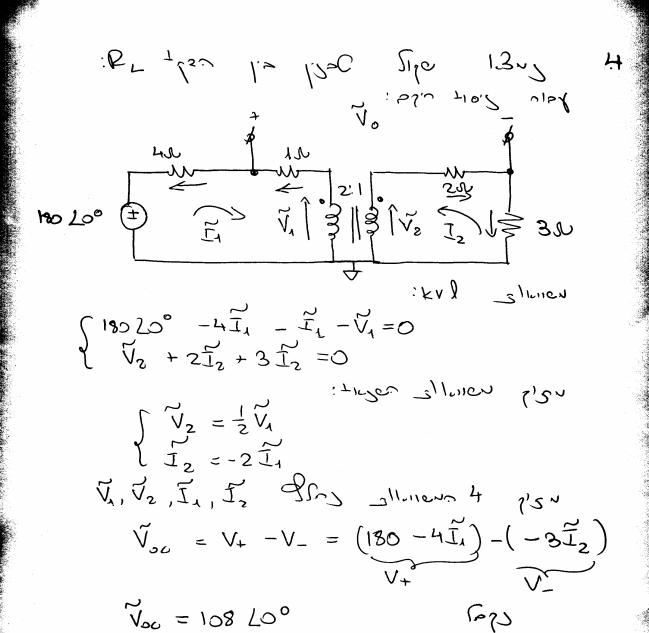
$$\nabla_{R} = \overline{1}_{2} \cdot R = -174 - 35.1 j$$

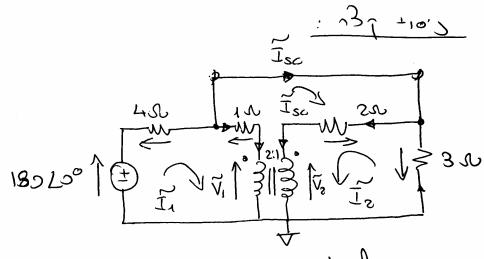
$$\nabla_{R,RMS} = \frac{1 \overline{V_{R}}}{\sqrt{2^{7}}} = 126 \overline{V_{R}}$$

$$P_{R} = \frac{1 \overline{V_{R}}}{2R} = 176 W$$



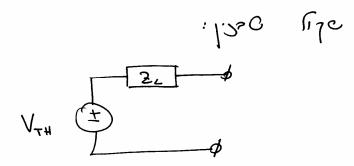
2, = 10h

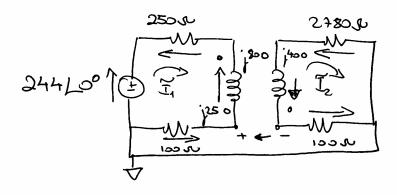




$$\begin{cases} \vec{\nabla}_2 = \frac{1}{2} \vec{\nabla}_4 \\ (\vec{1}_4 - \vec{1}_{sc}) = -2 (\vec{1}_2 + \vec{1}_{sc}) \end{cases}$$

$$I_{z} = 1820^{\circ}$$
 $I_{z} = 722180^{\circ}$
 $I_{sc} = 5420^{\circ}$





·kvl

$$\begin{cases}
244 - 250\overline{1}_{1} - \left[\frac{1}{250}\overline{1}_{1} + \frac{1}{300}\overline{1}_{2}\right] - 100\overline{1}_{1} = 0 \\
E_{1}^{400}\overline{1}_{2} + \frac{1}{300}\overline{1}_{1}\right] + 2780\overline{1}_{2} + 100\overline{1}_{2} = 0
\end{cases}$$

$$\begin{cases}
\overline{1}_{1} = 0.637 - \frac{1}{1000} \cdot 0.053 \\
\overline{1}_{2} = -0.175 - \frac{1}{1000} \cdot 0.005
\end{cases}$$

$$\vec{V} = \vec{V}_{1} - \vec{V}_{2} = 100\overline{1}_{1} - \left(-100\overline{1}_{2}\right) = 46.15 - 6.3i$$