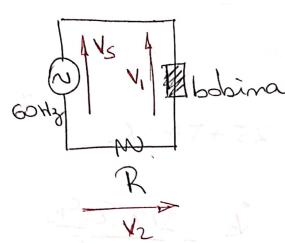
F cotaup



$$V_{5} = 120 \text{ V}$$
 $V_{1} = 84 \text{ V}$
 $V_{2} = 70 \text{ V}$

$$\frac{1}{\sqrt{1}} = \frac{3}{\sqrt{5}} = \frac{3}{\sqrt{1}} = \frac{2}{\sqrt{5}} = \frac{3}{\sqrt{5}} = \frac{$$

recramenta (T) <mark>Jan</mark>

$$|Z_{boloima}| = 300 = \sqrt{r^2 + \chi_2^2}$$

 $r^2 + \chi_2^2 = 30^2$

$$\dot{V}_S = V_S J_Z I_{SS}$$
 $\dot{V}_S = V_S J_Z I_{SS}$
 $\dot{V}_S = Z_T \cdot \dot{I} \Rightarrow Z_T = \frac{\dot{V}_S}{\dot{I}} = \frac{120 J_Z I_{SS}}{100 J_Z I_{SS}}$

$$\begin{cases} (++8)^{2} + x^{2} = 30^{2} \\ (+5/86)^{2} \end{cases}$$

$$(r^2 + R^2) - r^2 = (42,86)^2 - 30^2$$

$$(r+r+r)(r+r-r) = 936,98$$

$$(27 + R)R = 936,98$$

$$27 = \frac{936,98}{35} - 25$$

$$X_{L}^{2} + r^{2} = 30^{2} = 7$$
 $X_{L}^{2} = 30^{2} - r^{2}$
 $X_{L} = \sqrt{30^{2} - (6_{1}24)^{2}} = 7$
 $X_{L} = 29,34$
 $X_{L} = 29,34$
 $X_{L} = 6_{1}24 + j \cdot 29,34$
 $X_{L} = 29,36$
 $X_$

ZT = 31,24+150,36 = 45,86/43,27

$$\begin{array}{l}
\theta_{5} - \theta_{2} = 43,21 \\
\theta_{1} - \theta_{2} = 48^{\circ} \\
0_{1} = 48 - 43,21 \\
\theta_{1} = 34,49 \\
\theta_{2} = 94 - 48 = 48 - 43,24 - 48 \\
= -43,21 \\
= -43,21
\end{array}$$

$$\dot{T} = 3,96 | -43,21 A$$

$$Zbobino = 30 | 48^{\circ}$$

$$\dot{V}_{1} = 118 | 49 | 34,49$$

$$\dot{V}_{2} = 98,99 | -43,21$$

$$\dot{V}_{3} = 169,40 | 0^{\circ}$$