CIRCUITS ASSIGNMENT #2

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$$W = \frac{2\pi}{T}$$
Av
$$\Rightarrow e$$

 $7 = \sqrt{\frac{1}{7}} \left(\frac{9}{2} + \frac{1}{28(2\pi)} \left(\frac{9}{2} \ln \left(\frac{1}{4} \ln \frac{1}{4} \right) + \frac{24}{28(2\pi)} \left(\frac{9}{4} + \frac{1}{16} \ln \left(\frac{1}{4} \ln \frac{1}{4} \right) + \frac{24}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} + \frac{1}{16} \ln \frac{1}{4} \right) + \frac{1}{16} \ln \left(\frac{9}{4} +$

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→ 130 < = 52.1°

$$\int_{7}^{2} \sqrt{7^{2}+9^{2}} \qquad \theta = \tan^{-1}(\frac{9}{7})$$

$$\int_{7}^{2} \sqrt{7^{2}+9^{2}} \qquad \theta = 52.1$$

$$\Gamma = \sqrt{7^{2} + (-2)^{2}} \quad 0 = \tan^{-1}(-\frac{\pi}{2})$$

$$\Gamma = \sqrt{53} \quad 0 = 105, 9$$

$$\Gamma = \sqrt{7^2 + (1/3)^2}$$
 $\theta = \tan^{-1}(\frac{1/3}{7})$
 $\Gamma = 7,01$ $\theta = 2.8$

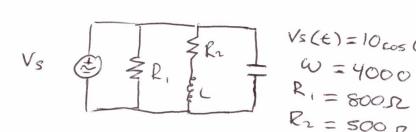
$$\theta = \tan^{-1}\left(\frac{1/3}{7}\right)$$

 $\theta = 2.8$

$$\frac{(4a)}{3} = e^{(3\pi/2)^3} e^{-\pi/2} = \cos(-\pi/2) + 3\sin(-\pi/2) = 3$$

$$\frac{(4a)}{9} e^{-3\pi} = \cos(-\pi/2) + 3\sin(-\pi/2) = 3$$





$$V_{S}(E) = 10_{COS}(4000E + 60^{\circ})$$

 $W = 4000$
 $R_{1} = 800_{S}$
 $R_{2} = 500_{S}$
 $L = 200_{m+1}$
 $C = 70_{n}$ F

$$Z_{r} = \frac{1}{\frac{1}{800 + \frac{1}{500 + 800}}}$$

$$= \frac{1}{\frac{1}{600 + \frac{1}{500 + 800}}}$$

$$= \frac{1}{\frac{1}{60.00181 - 0.0006195}}$$

$$Z_{r} = 494.3 + 168.85$$

$$I = 20 c - \pi/4 = 14.14 - 14.145$$
 $R = 3\pi$
 $Z_1 = -3\pi$
 $Z_2 = -3\pi$

$$Z_{12} = \frac{1}{1/-j_3 + 1/-j_7}$$

$$= \frac{1}{0.476j}$$

$$I_{z_2} = \frac{-2.1i}{-2.1i+3\pi} (202 - \frac{\pi}{4})$$

$$= 0.476$$