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Solución 18-2 | Series Circuits 183

PROBLEMA 18-5

Convierte la impedancia de la red que se muestra en la redonda hacia la forma polar.

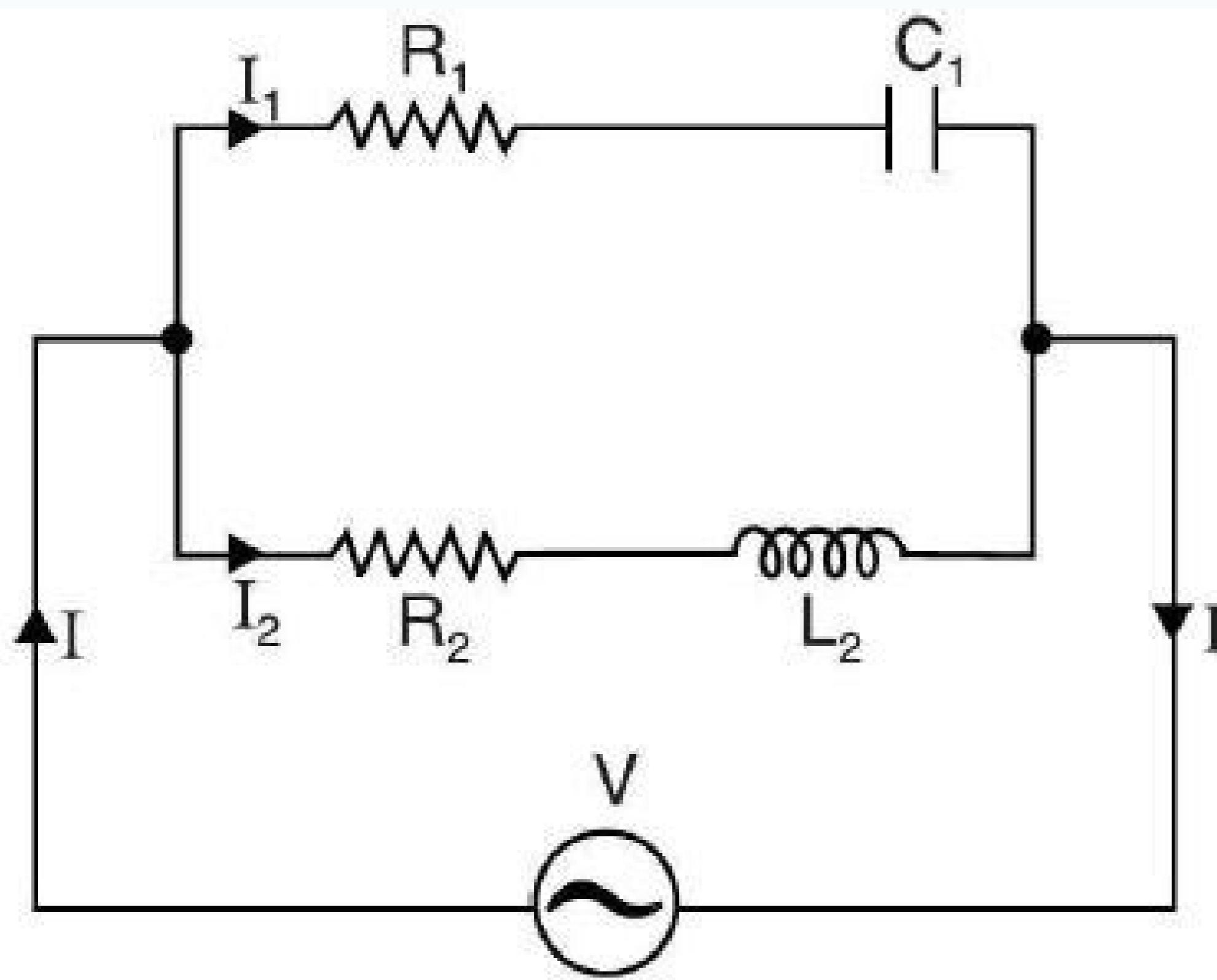
Dados: $Z_1 = 12 + j12 \Omega$, $Z_2 = 12 - j12 \Omega$, $Z_3 = 12 + j12 \Omega$, $Z_4 = 12 - j12 \Omega$, $V = 120 \text{ V}$.

Se pide: $Z = ?$

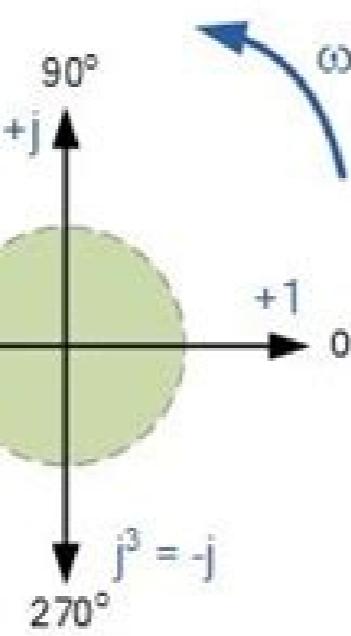
Solución: La impedancia total es:

$$Z = Z_1 + Z_2 + Z_3 + Z_4 = 12 + j12 + 12 - j12 + 12 + j12 + 12 - j12 = 48 + j0 \Omega$$

Por lo tanto, la impedancia total es $Z = 48 \Omega$.



90° rotation: $j^1 = \sqrt{-1} = +j$
180° rotation: $j^2 = (\sqrt{-1})^2 = -1$
270° rotation: $j^3 = (\sqrt{-1})^3 = -j$
360° rotation: $j^4 = (\sqrt{-1})^4 = +1$



Cartesian form: $Z_L = R_L + j\omega L$
Polar form: $Z_L = |Z_L|e^{j\phi}$
where $|Z_L| = \sqrt{R_L^2 + \omega^2 L^2}$
 $\phi = \tan^{-1} \frac{\omega L}{R_L}$

Cartesian form: $Z_C = R_C - \frac{j}{\omega C}$
Polar form: $Z_C = |Z_C|e^{j\phi}$
where $|Z_C| = \sqrt{R_C^2 + \frac{1}{\omega^2 C^2}}$
 $\phi = \tan^{-1} \frac{-1}{\omega R_C}$

$$2. 10 \angle 90 + \frac{\angle 120}{\angle -30}$$

The entire right edge of the page is in Spanish. It discusses the conversion of rectangular forms to polar forms, mentioning the use of phasors and the relationship between magnitude and phase. It also touches on the use of polar coordinates in degrees and radians, and the use of software like TranslatorsCafe.com for calculations. It ends with a note about the importance of engineering careers in various industries.

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