

Practica

- Calcular impedancia
- Trace el diagrama de impedancia
- Determine la admitancia de cada rama en paralelo
- Determine la admitancia de entrada y trace el diagrama de admitancia

a) binomica: $10\Omega + j20\Omega \rightarrow \text{polar} = 22,36 \angle 63,43^\circ$

$$|Z| = \sqrt{10^2 + 20^2} = 22,36$$

$$\angle Z = \tan^{-1}\left(\frac{20}{10}\right) = 63,43^\circ$$

$$\phi = \tan^{-1}\left(\frac{20}{10}\right)$$

$$\phi = 63,43^\circ$$

$$\rightarrow 22,36 \angle 63,43^\circ \rightarrow \text{binomica} = 4\Omega + j7,93\Omega$$

$$Z_x = 8,93 \cos(63,43^\circ)$$

$$Z_x = 4\Omega$$

$$Z_y = 8,93 \sin(63,43^\circ)$$

$$Z_y = 7,93\Omega$$

b) diagrama de impedancia

