

Nombre Mercedes
Curso 5to tel
Materia AMC

$$P_2 = \sqrt{12} \cdot 2$$

$$P_2 = 13r$$

C = Capacitor



$$R = 5\Omega \rightarrow 0^\circ$$

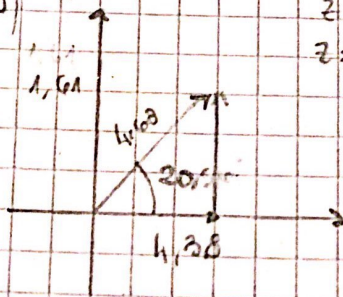
$$X_L = 8\Omega \rightarrow 90^\circ \rightarrow -90^\circ$$

$$X_C = 20\Omega \rightarrow -90^\circ \rightarrow 90^\circ$$

$$Z_T = \frac{1}{\frac{1}{8\Omega} + \frac{1}{5\Omega} + \frac{1}{20\Omega}} = \frac{1}{0,125 + 0,2 + 0,05} = 4,68\Omega \angle 20,56^\circ$$

$$\frac{1}{0,25 + j0,075} = \frac{1}{0,2136 \angle -20,56^\circ} = 4,68\Omega \angle 20,56^\circ$$

b)



$$Z_X = 4,68\Omega \cos 20,56^\circ$$

$$Z_X = 4,38$$

binómica =

$$Z_Y = 4,68 \sin 20,56^\circ$$

$$Z_Y = 1,61$$

