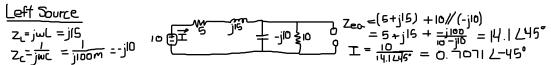


Using superposition, find i(t)



- a) Find *i*(t) from the left source if the right is zeroed (t) = 0.707cos(10+-45°) A

c) Find the total i(t)

2. Find the phase equivalent current source of the circuit below (i.e. its source transform)

$$10\cos(100t+45^{\circ})$$

$$Z_{C} = j\omega L = j \cdot 10$$

$$10 \cdot L^{45} + \frac{10 + j \cdot 10}{10 + j \cdot 10} = \frac{10 \cdot L^{45}}{10 + j \cdot 10} = \frac{0.707}{10 + j \cdot 10} = \frac{0.707}{10 + j \cdot 10}$$