Question 1:
10) phason responsementation of the voltage

Source is 20/45°.

(b) impedance of
$$L2 = j\omega L$$

$$2j \times 50 \times 500 \times 10^{-3}$$

$$= j25$$

(c) equivolent impedance
$$f(u)$$
 and (2) :
$$\frac{1}{2} = \frac{1}{2} + \frac{1}{2} = \frac$$

W/30° Il source treamsformation of 5/-90° Il equivalent impedance of 4700 & j and again sower transformation of 5/-90 4700 10/30° -212.766j 1 = 1 + 1 => 2 = 4700 + J => 2 = 4700 +

finally the would can be represented as,

$$50+j$$
 $3.66+5j$
 3.6

(Ans)