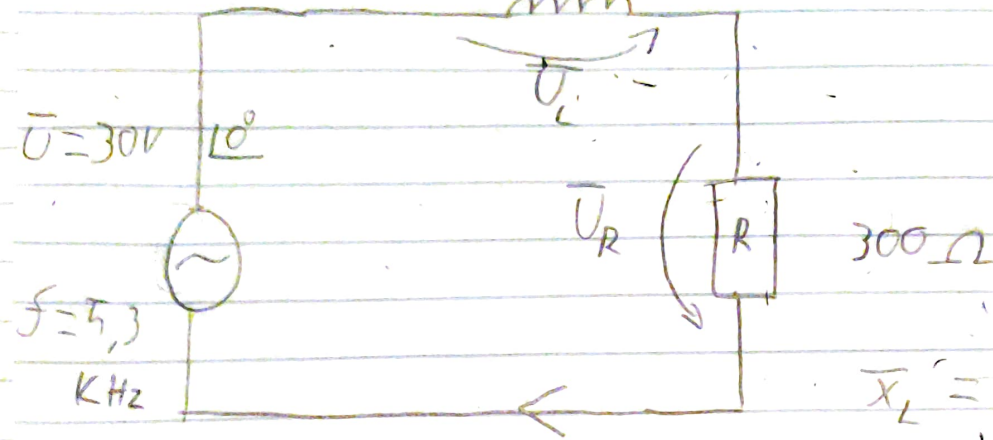


Harj KT

$L = 20 \text{ mH}$
mm



$$\bar{X}_L = j\omega L$$

$$2\pi \times 5300 \times 0.02 \times j$$

$$\bar{I} = \frac{\bar{U}}{\bar{Z}} = \frac{30 \text{ V} \angle 0^\circ}{730.465 \Omega \angle 65.7^\circ} =$$

$$\bar{X}_L = 666.018 \Omega \angle 90^\circ$$

$$\bar{I} = 0.041 \text{ A} \angle -65.7^\circ$$

$$\bar{Z} = R + \bar{X}_L = 300 \Omega + 666.018 \Omega \angle 90^\circ$$

$$\bar{Z} = 730.465 \Omega \angle 65.7^\circ$$

$$\bar{U}_L = \bar{I} \times \bar{X}_L = 0.041 \text{ A} \angle -65.7^\circ \times 666.018 \Omega \angle 90^\circ$$

$$\bar{U}_L = 27.353 \text{ V} \angle 24.2^\circ$$