• Bsp
$$f = 1$$
 $U = 230V$
 $R = 1000 \Omega$ $X_c = 1k\Omega$ $f = 50 Hz$
 $C = ? Z = ? I = ?$
 $X_c = \frac{1}{2} \omega C$ $C = \frac{1}{2} \omega X_c = \frac{1}{2} \omega X_c$
 $C = \frac{1}{2} \omega X_c = \frac{1}{2} \omega X_c = \frac{1}{2} \omega X_c$
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 $C = \frac{1}{2} \omega X_c = \frac{1}{2$

$$Z = R - j X_c = 1000 - j 1000 \Omega$$

$$Z = \sqrt{1000^2 + 1000^2} = 1000 / 2^7 = 1414 \Omega$$

$$Q = -45^{\circ}$$

$$R C$$

$$R C$$

$$R = 300 \Omega$$

$$Z = 400 \Omega ; f = 50 Hz$$

$$R = 72^2 - R^2 = 7400^2 - 300^2 = 764, 57\Omega$$

$$R = 12^2 - R^2 = 7400^2 - 300^2 = 764, 57\Omega$$

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