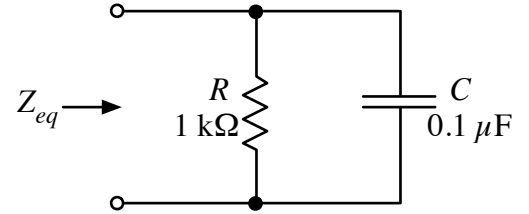


- a. For the RC parallel combination shown at right, what is the angular frequency at which the *magnitude* of the equivalent impedance be equal to 250 Ω?



$\omega =$ _____

- b. What is the phase angle of the impedance at the frequency calculated in part (a) above?

$\theta =$ _____

- c. At what angular frequency is the *phase angle* of Z_{eq} equal to -45° ?

$\omega =$ _____

- d. What is the magnitude of the impedance at the frequency calculated in part (c) above?

$|Z_{eq}| =$ _____

- e. What is the magnitude of the impedance as $\omega \rightarrow 0$?

$|Z_{eq}| =$ _____

- f. What is the magnitude of the impedance as $\omega \rightarrow \infty$?

$|Z_{eq}| =$ _____