

a. For the *RL* parallel combination shown at right, what is the angular frequency at which the *magnitude* of the equivalent impedance be equal to 500 Ω ?

ω =____



- b. What is the phase angle of the impedance at the frequency calculated in part (a) above?
 - θ = _____
- c. At what angular frequency is the phase angle of Z_{eq} equal to +45°?
 - ω = _____
- d. What is the magnitude of the impedance at the frequency calculated in part (c) above?



- e. What is the magnitude of the impedance as $\omega \rightarrow 0$?
 - |*Z_{eq}*| = _____
- f. What is the magnitude of the impedance as $\omega \rightarrow \infty$?

