What is the average power delivered by the source to the load? Assume that:

\[ i_s(t) = I_A \cos(\omega t + \phi) \]

A \[ P = RI_A^2 \cos^2(\omega t + \phi) \]

B \[ P = \frac{1}{2} RI_A^2 \cos^2(\omega t + \phi) \]

C \[ P = \frac{1}{2} RI_A^2 \]

D \[ P = \left( R + \frac{1}{j\omega C} + j\omega L \right)I_A^2 \]

E \[ P = \frac{1}{2} \left( R + \frac{1}{j\omega C} + j\omega L \right)I_A^2 \]
No power, on average, is absorbed or delivered by either the inductor or the capacitor. Average power delivered to resistor is

\[
P = \frac{1}{2} R |I_s|^2 = \frac{1}{2} R I_A^2
\]