The ac voltage source $\mathcal{E} = \mathcal{E}_{\text{max}} \sin \omega t$ has an amplitude of $\mathcal{E}_{\text{max}} = 24\text{V}$ and an angular frequency of $\omega = 10\text{rad/s}$.

In each of the three circuits, find

(a) the current amplitude $I_{\text{max}}$,  
(b) the current $I$ at time $t = 1\text{s}$.