

Chapter 11, Solution 36.

(a) $I_{\text{rms}} = \underline{10 \text{ A}}$

(b) $V_{\text{rms}}^2 = 4^2 + \left(\frac{3}{\sqrt{2}}\right)^2 \longrightarrow V_{\text{rms}} = \sqrt{16 + \frac{9}{2}} = \underline{4.528 \text{ V}}$ (checked)

(c) $I_{\text{rms}} = \sqrt{64 + \frac{36}{2}} = \underline{9.055 \text{ A}}$

(d) $V_{\text{rms}} = \sqrt{\frac{25}{2} + \frac{16}{2}} = \underline{4.528 \text{ V}}$