

**Chapter 9, Solution 28.**

Determine the current that flows through a  $15\text{-}\Omega$  resistor connected in parallel with a voltage source  $v_s = 156 \cos(377t + 45^\circ)$  V.

**Solution**

$$i(t) = \frac{v_s(t)}{R} = \frac{156 \cos(377t + 45^\circ)}{15} = \mathbf{10.4 \cos(377t + 45^\circ) \text{ A.}}$$