Chapter 9, Solution 27.

$$j\omega \mathbf{V} + 50\mathbf{V} + 100\frac{\mathbf{V}}{j\omega} = 110 \angle -10^{\circ}, \quad \omega = 377$$

$$\mathbf{V} \left(j377 + 50 - \frac{j100}{377} \right) = 110 \angle -10^{\circ}$$

$$\mathbf{V} \left(380.6 \angle 82.45^{\circ} \right) = 110 \angle -10^{\circ}$$

$$\mathbf{V} = 0.289 \angle -92.45^{\circ}$$

Therefore, $v(t) = 289 \cos(377t - 92.45^{\circ}) \text{ mV}$.