Chapter 6, Solution 6.

$i = C\frac{dv}{dt} = 55x10^{-6}$ times the slope of the waveform.

For example, for 0 < t < 2,

$$\frac{\mathrm{dv}}{\mathrm{dt}} = \frac{10}{2\mathrm{x}10^{-3}}$$

$$\mathrm{i} = C\frac{dv}{dt} = (55x10^{-6})\frac{10}{2x10^{-3}} = 275mA$$

Thus the current i(t) is sketched below.