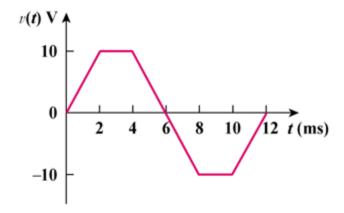
P1 The voltage waveform below is applied across a 30- μ F capacitor. Sketch the current waveform through it. Hint: i(t) = 150 mA, $10 \text{ms} < t \le 12 \text{ms}$



- P2 The current through a 0.5-F capacitor is $6(1-e^{-t})$ A. Determine the voltage and power at t=2 s. Assume v(0) = 0. *Hint*: p(2) is between 70W and 80W.
- P3 Find the voltage across the capacitors v_1 and v_2 in the circuit below under dc conditions. Hint: both voltages are between 29V and 41V.

