

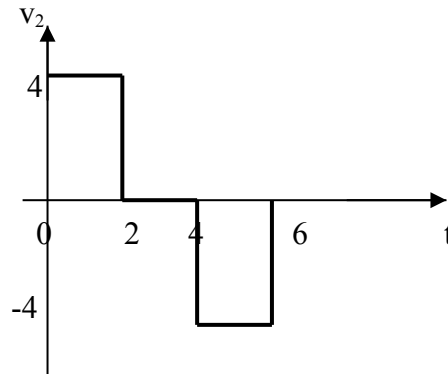
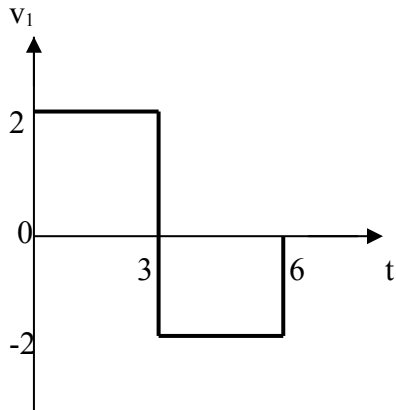
Chapter 6, Solution 63.

We apply superposition principle and let

$$v_o = v_1 + v_2$$

where v_1 and v_2 are due to i_1 and i_2 respectively.

$$v_1 = L \frac{di_1}{dt} = 2 \frac{di_1}{dt} = \begin{cases} 2, & 0 < t < 3 \\ -2, & 3 < t < 6 \end{cases}$$
$$v_2 = L \frac{di_2}{dt} = 2 \frac{di_2}{dt} = \begin{cases} 4, & 0 < t < 2 \\ 0, & 2 < t < 4 \\ -4, & 4 < t < 6 \end{cases}$$



Adding v_1 and v_2 gives v_o , which is shown below.

