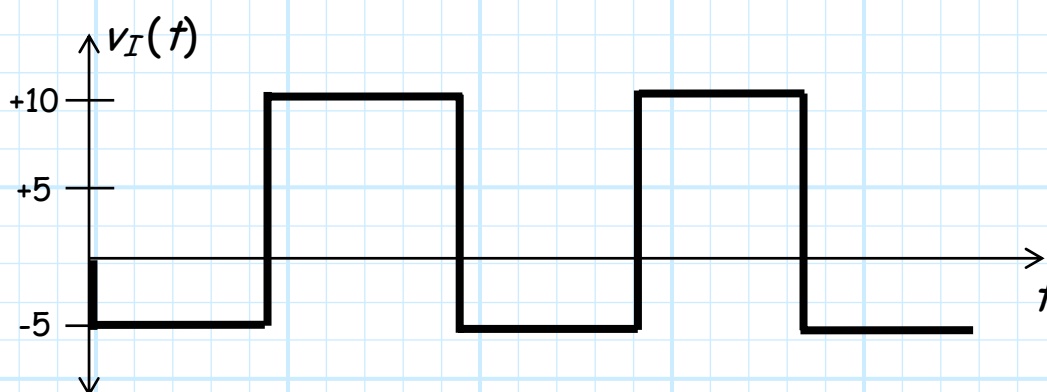
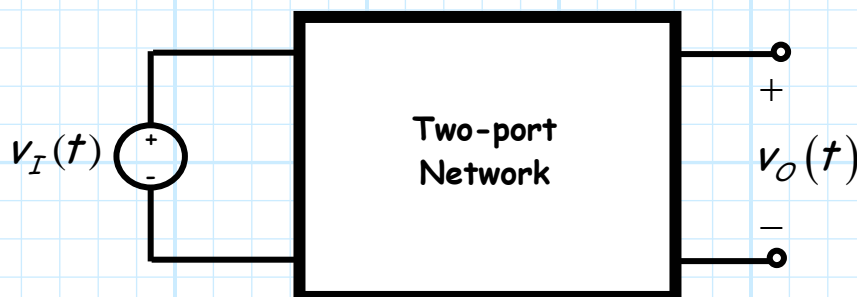


Special Problem 3.5 -14

A two port network has at its input the signal $v_I(t)$, plotted below:



Say the network has the transfer function shown below, where A and B are unknown values.

$$v_O(t) = \begin{cases} 5 & \text{if } v_I > A \\ v_I + B & \text{if } v_I < 0 \end{cases}$$

1. Determine the values of A and B (provide justification!).
2. Carefully plot the output voltage $v_O(t)$ on the graph on the next page.

