

P3.2-2:

KCL @ node a : $2 = i_2 + b = 0 \rightarrow i_2 = -4A$

KCL @ node b : $3 = i_4 + b \rightarrow i_4 = -3A$

KVL @ I : $-v_2 - b = 0 \rightarrow v_2 = -6V$

KVL @ II : $-v_3 - (-2) - b = 0 \rightarrow v_4 = -4V$

KVL @ III : $4 - v_6 + (-2) = 0 \rightarrow v_6 = 2V$

$\Rightarrow -12 - 24 + 24 - 6 + 12 - 6 = 0$

