PROBLEM 1: Using source transformations, find $v_0$ when $i = 5/2$ Amps. (10 points)

PROBLEM 2: Using superposition, find $i_x$ current in the circuit. (10 points)

PROBLEM 3: Find the Thevenin voltage $v_{oc}$ and resistance $R_t$ (shown in (b)) for the circuit shown in (a). (10 points)

PROBLEM 4: Find the load resistance $R_l$ for maximum power transfer. (10 points)