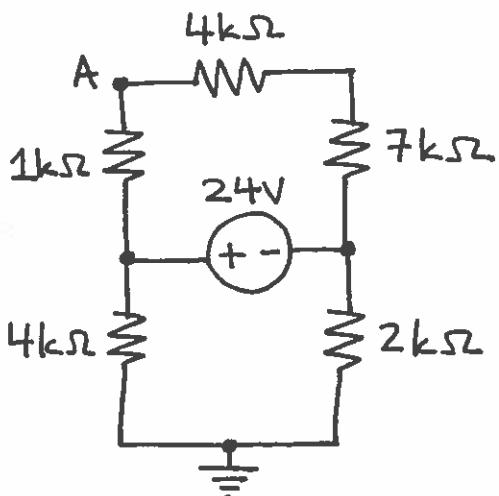
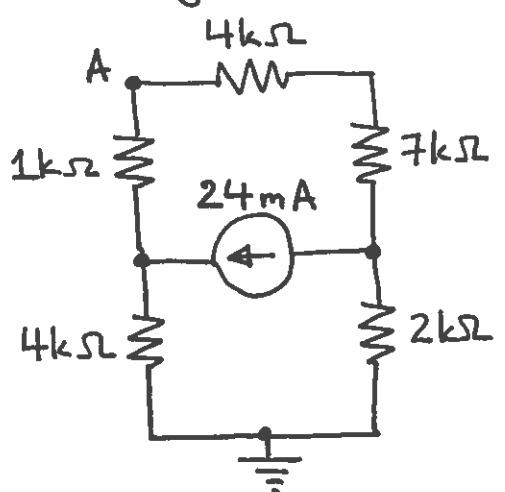
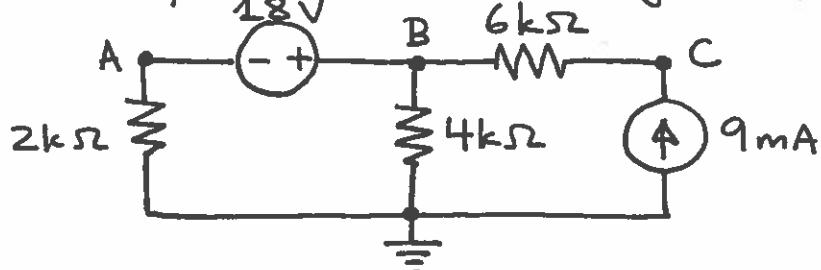


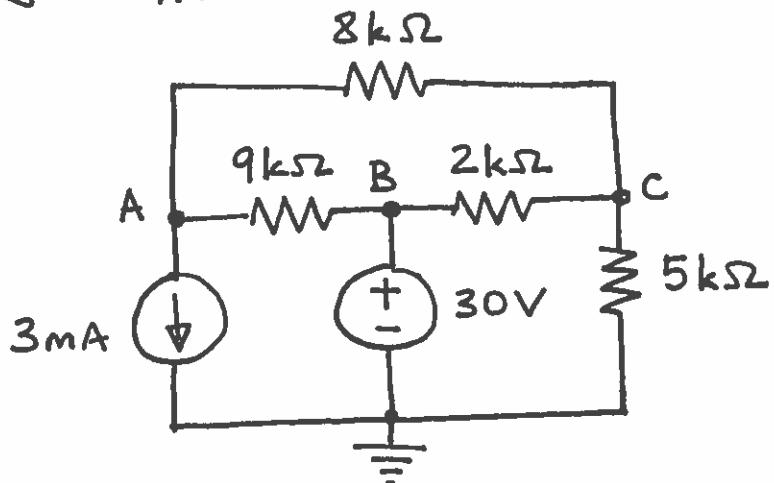
- (1) For each circuit shown, find the node voltage V_A .



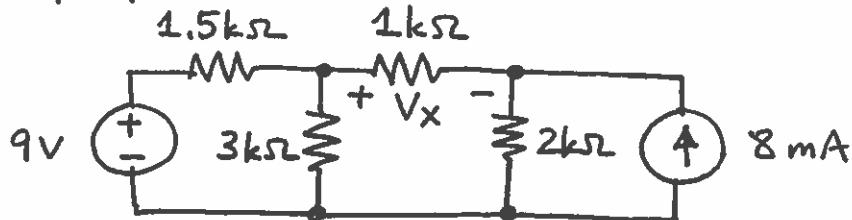
- (2) For the circuit shown below, find the values of the node voltages V_A , V_B , and V_C .



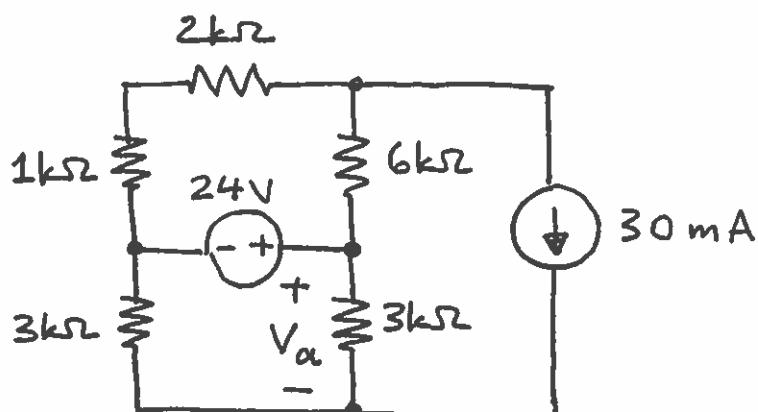
- (3) For the circuit shown below, find the node voltages V_A , V_B , and V_C .



- (4) For the circuit shown, find the voltage V_x across the $1\text{k}\Omega$ resistor using (a) source transformation; (b) superposition principle.

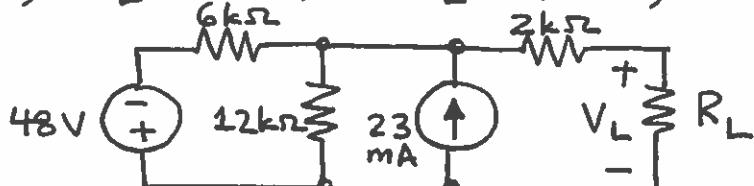


- (5) For the circuit shown, find the voltage V_a .

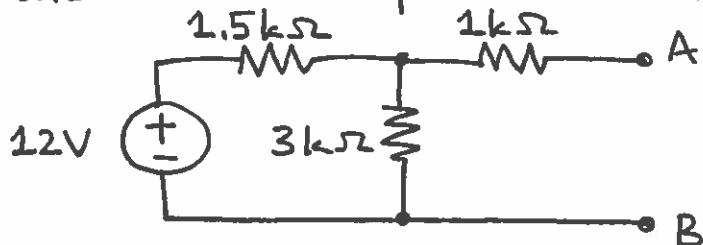


- (6) For the circuit shown, find the load voltage V_L for the following values of load resistor R_L :

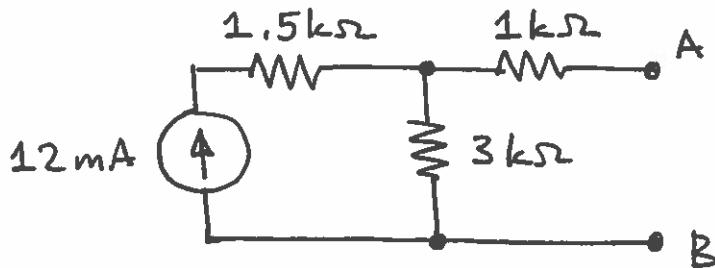
(a) $R_L = 2\text{k}\Omega$; (b) $R_L = 4\text{k}\Omega$; and (c) $R_L = 6\text{k}\Omega$.



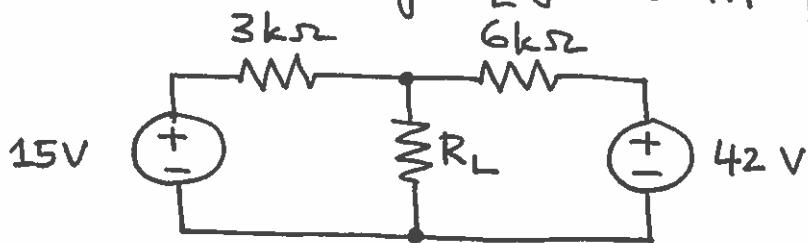
- (7) For the circuit shown, find (a) the load resistor R_L to be connected between terminals A-B so that it receives maximum power from the circuit; (b) the maximum power received by R_L .



- (8) For the circuit shown, find (a) the value of R_L to be connected between A-B terminals so it receives maximum power; (b) the maximum power received by R_L found in part (a).



- (9) For the circuit shown, find (a) R_L so that it receives maximum power; (b) the maximum power received by R_L found in part (a).



To be connected between A-B

- (10) For the circuit shown, find (a) R_L so that it receives maximum power; (b) the maximum power received by R_L found in part (a).

