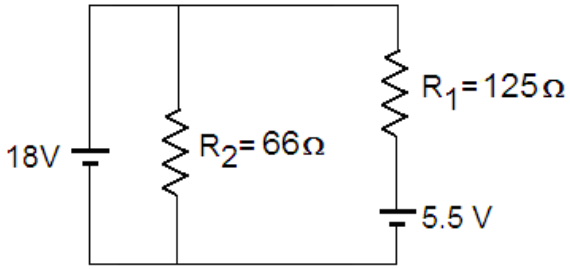
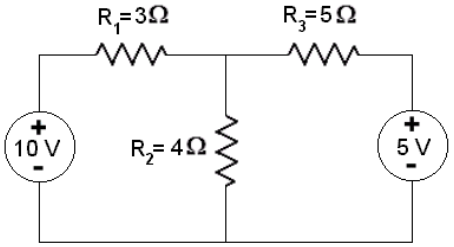
Physics II

Kirchhoff

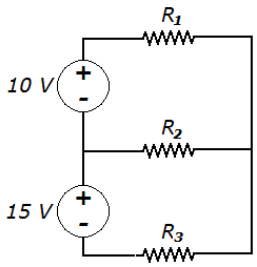
Problem 1.- Determine the magnitude and direction (up or down) of the current through R_1.



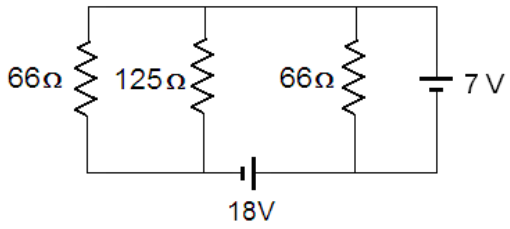
Problem 2.- We want to find the current through the resistors R_1, R_2 and R_3.
Write down the equations that you need and solve the problem.



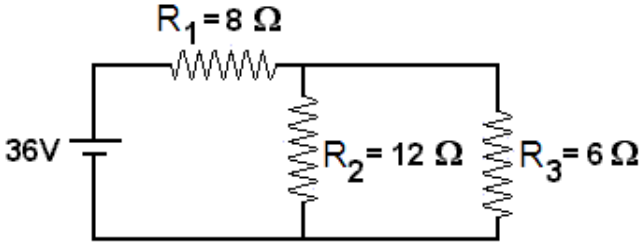
Problem 3.- Write down the equations to find the currents in the resistors. The values of the resistances are R_1=10Ω, R_2=15Ω and R_3=12Ω.



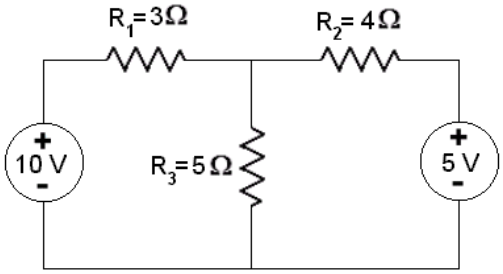
Problem 4.- Find the current through the 125Ω resistor.



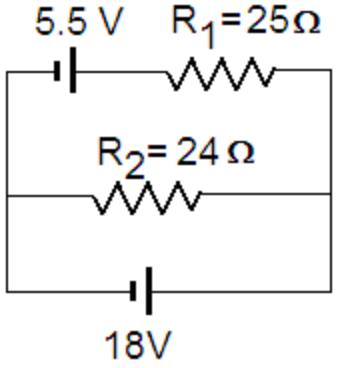
Problem 5.- Find the current through R_3 in the circuit shown:



Problem 6.- Find the current through the resistors R_1, R_2 and R_3.



Problem 7.- Determine the magnitude and direction (left or right) of the current through R_1.



Problem 8.- In the following circuit, determine values of I_{ps}, I_1, I_2, V_A and V_B.