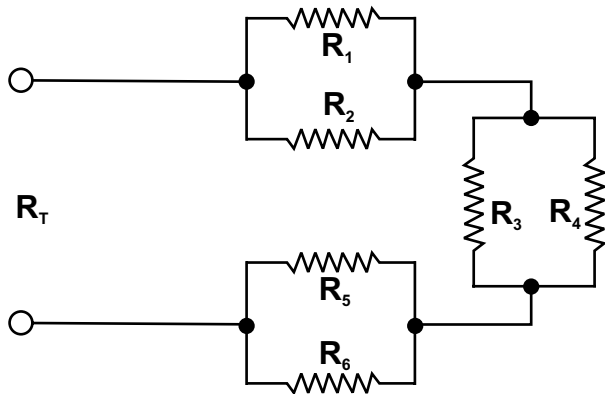
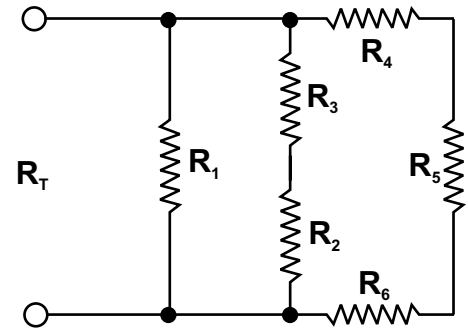


Name _____ Student # _____ Section _____

For each of the networks, write an expression for the total resistance R_T .



$R_T =$ _____



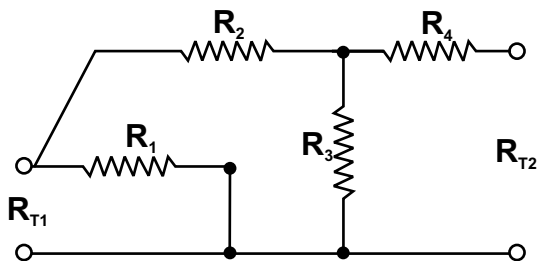
$R_T =$ _____

Resistor networks have total resistances as given below.
Sketch a circuit which corresponds to each expression.

$$R_T = [(R_1 || R_2) + (R_3 || R_4)] || R_5$$

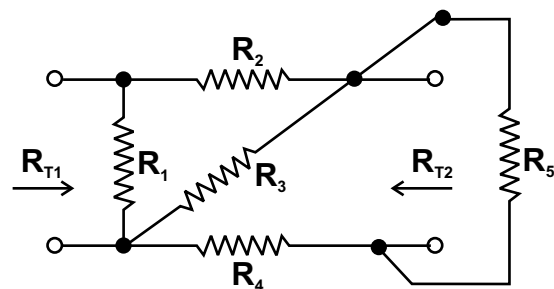
$$R_T = (R_1 || R_2) + R_3 + [(R_4 + R_5) || R_6]$$

For each of the networks, write an expression for the total resistance R_{T1} and R_{T2} .



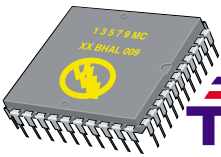
$R_{T1} =$ _____

$R_{T2} =$ _____



$R_{T1} =$ _____

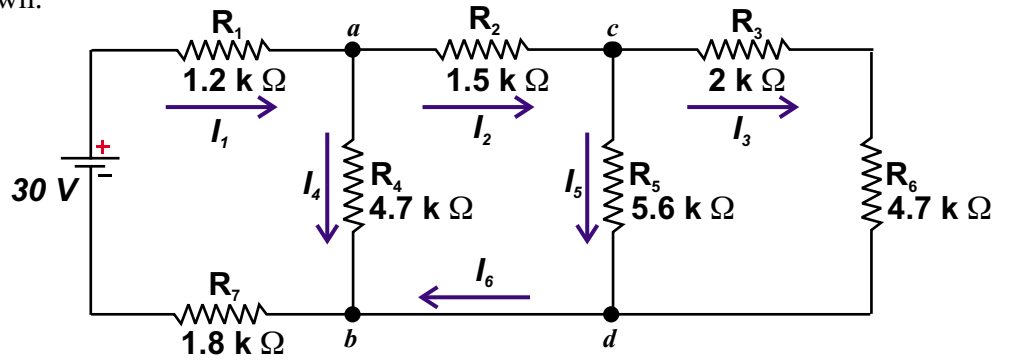
$R_{T2} =$ _____

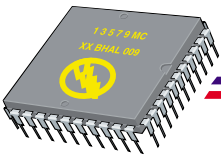


Electro - Principles I

Tutorial 6 Series Parallel Circuits

Determine all of the currents shown.
Solve for the voltages V_{ab} and V_{cd}





Find the following circuit quantities

- a) R_T
- b) I_T, I_1, I_2, I_3, I_4
- c) V_{ab}, V_{bc}

