Homework 10.

You will have just one problem for the homework. This problem is challenging, so I will give you 2 clues:

Clue 1: Use the principle of symmetry.

Clue 2: I you will find 2 (or more)points in the circuit which have same potential, you can connect them with an ideal wire – the resistance of the circuit will not change. Or, vice versa – if you found that the current does not flow through a part of a circuit – you can cut this part out. The resistance of the circuit will not change.

The problem:

Each resistor in a star-like circuit has a resistance of 2 Ohms. Most of the connections here are neither parallel nor series. Which resistance we will measure between points "A" and "B"?