

Series-Parallel Worksheet

Skills Test

Complete the values for the following circuits. On a separate sheet of paper be sure to show your formulas and calculations for each step. Use the formulas for Ohm's law, series circuits, and parallel circuit to find the missing values.

1. Solve for total resistance (R_T), total current (I_T), voltage drop (VD) and voltage drop over the parallel ($VD||$).

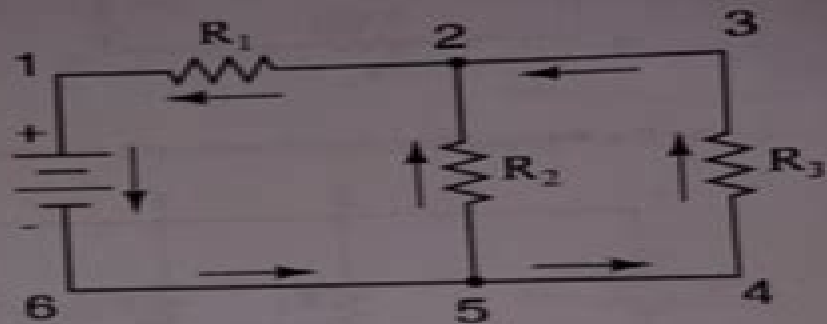
$V_S = 12V$ $R_1 = 4\Omega$ $R_2 = 6\Omega$ $R_3 = 8\Omega$

$R_T = 1.8\Omega$

$I_T =$ _____

$VD(R_1) =$ _____

$VD|| =$ _____



2. $V_S = 120V$ $R_1 = 4k\Omega$ $R_2 = 5k\Omega$ $R_3 = 4k\Omega$ $R_4 = 6k\Omega$

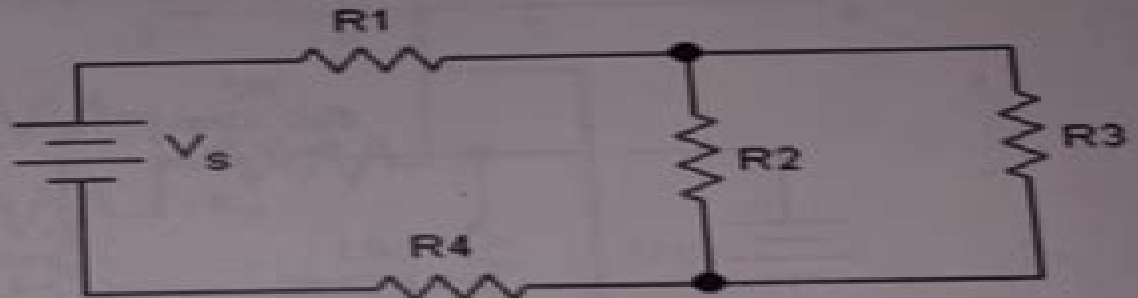
$R_T =$ _____

$I_T =$ _____

$VD(R_1) =$ _____

$VD(R_4) =$ _____

$VD|| =$ _____



- 3.

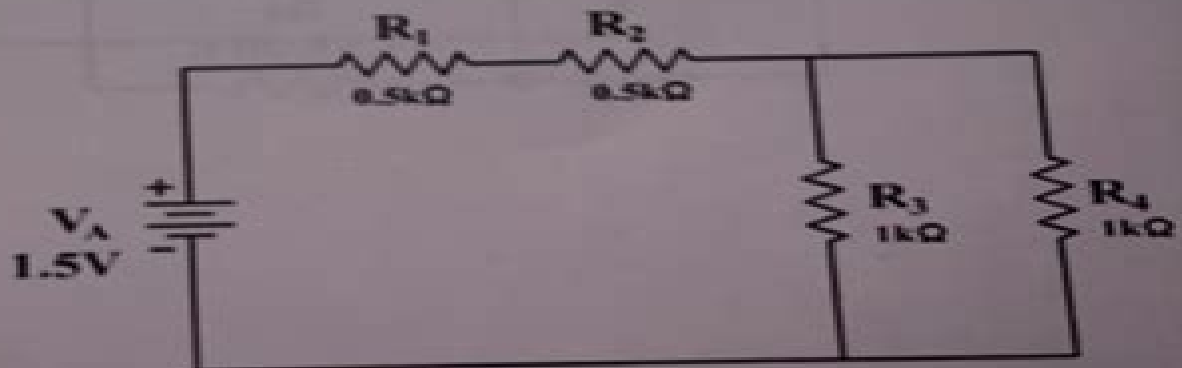
$R_T =$ _____

$I_T =$ _____

$VD(R_1) =$ _____

$VD(R_2) =$ _____

$VD|| =$ _____



Series And Parallel Circuits Study Guide Answers

**John D. Cutnell, Kenneth W.
Johnson, David Young, Shane Stadler**

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