No. :

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Jawaban Rangkaian Seri

1. $R_1 = 10\ K\Omega$

1. R : $R_1 + R_2 + R_3$
   $30 = 10 + 15 + R_3$
   $R_3 = 30 - 10 + 15$
   $= 5\ K\Omega$
   $I = \frac{V}{R}$
   $= \frac{5}{30} = 0,00016\ A$

2. $R_T = R_1 + R_2 + R_3$
   $= 25,5K + 70 + 150$
   $= 25.500 + 70 + 150$
   $= 27.720\ \Omega$
   $I = \frac{V}{R}$
   $= \frac{15}{27.720} = 0,00058\ A$

3. $R_T = R_1 + R_2 + R_3$
   $100 = 25 + 15 + R_3$
   $R_3 = 100 - 40$
   $= 60\ K\Omega$
   $I = \frac{V}{R}$
   $= \frac{5}{100\ K}$
   $= \frac{5}{100.000} = 0,00005\ A$

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Jawaban Rangkaian Paralel

1. $\frac{1}{R_t} = \frac{1}{15k} + \frac{1}{50} + \frac{1}{100}$

$\frac{1}{R_t} = \frac{1}{15k} + \frac{300}{15k} + \frac{150}{15k}$

$= \frac{451}{15k} = \frac{15k}{451} = 33,25\ \Omega$

2. $R_t = \frac{1}{150k} + \frac{15k}{150k} + \frac{750}{150k}$

$= \frac{15751}{150k} = \frac{150k}{15751} = 9,52\ \Omega$

3. $I_1 = ? = 1\frac{5}{150k} = 0,00003\ A$

$I_2 = ? = 1\frac{5}{25k} = 0,0002\ A$

$I_3 = ? = 1\frac{5}{100k} = 0,05\ A$

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Rangkaian kombinasi

1. $R_{tp} = \frac{1}{R_t} = \frac{1}{100} + \frac{1}{100} + \frac{1}{15k}$

$= \frac{150}{15k} + \frac{15}{15k} + \frac{1}{15k}$

$= \frac{166}{15k}$

$R = \frac{15k}{166} = 90,36$

$R_{tp} = 90,36$

$R_t = 90,36 + 100k$

$= 100.090\ \Omega$

2. $V = I.R$

$= 2.100.090\ \Omega$

$= 200.180\ V = 2kV$

3. $R_t = R_p + R_a$

$= R_p + 150.000$

$R = \frac{V}{I} = \frac{15}{2} = 7,5\ \Omega$