Fisiua Dasar II Nama: Andri Firman Saputra NIM: 20/01/402/25 UAS Semester 2 No Date 1. Diu: W R4 352 a. Berashuah arus total 49 mengalir dalam rangualan? 6. Berapakah arus 49 menggir pada masin) = resistor C. Berapakah tegangan 49 Mengalir Pada Macing= resistorn 2. Diu: R3 6 V 1452 12 holding to 4,50 Dit: a. Beraranah R total? b. Berapakah arus pada masing = resistor? Diu: E1 = 16 V, E2 = 8 V, E3 = 10 V R1=12 Ohm, R2 = 6 Ohm, R3 = 6 Ohm Dit: Berapakah arus Pada RI, Rz, dan R3?

No			

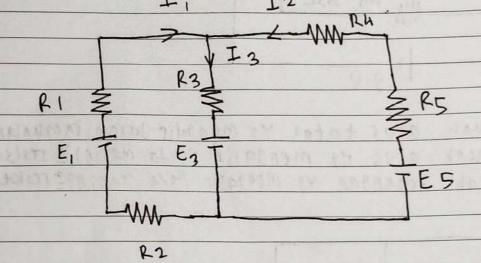
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4. Din: E1 = 10V, E2 = 10V, E3 = 4V, R1 = 5 ohm,

R2 = 1 ohm 1 R3 = 3 ohm, R4 = 1 ohm,

R5 = 5 ohm.

Dit: Daya Pada R1, R2 Jan R3?



Jawaban

1. a.
$$1 = 1 + 1$$
 (Arus total)

 r_1 r_2

$$\frac{1}{r_1} = \frac{1}{10} + \frac{1}{5} = \frac{1+2}{10} = \frac{3}{10}$$

$$r_1 = 10 + 4 = 10 + 12 = 22 \text{ ohm} = 7,334 \text{ ohm}$$

$$\frac{1}{12} = \frac{1}{12} + \frac{1}{12} = 0.3340 \text{ hm}$$

$$1 = V = 9$$

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b.	Berapakah arus 49 mengalir pada masing = resistor?
	R1 = 10s2 V= 9v
	R2 = 50
	R3 = 45L
*	R4 = 3 S2
7	Arus y, mengalir pada RI
	11 = VR1/R1 $11 = 9/10$
	11 = 0,9A,
	of the fire for the top of the
*	Arus ya mengair pada Rz
	12 = VR2 / R2
	12 = 9 / 5
	12 = 1,8 A,
C.*	ACUS 49 Mengalir Pada R3
<u></u>	13 = VR3/R3
	13=9/4
	13 = 2,25 A
*	
	14 = VR4 / R4
	$14 = 9/3$ $14 = 3 A_{//}$
	11-3 A/I
4:	Tegangan Yg mengalir Pada RI
MARIELE	V= 1. R O A REA REA
	V = 0,9. 10
	V = 9 volt,
.1.	141241 - 1
*	
	V=1.R V=1.8.5
	V = 9. Volty

JOYKO 36 Lines, 6 mm

* Arus Pada R4 14 - VR4/R4 14 = 6 / 4,5 (4 = 1,33 A

I1 = -5,6/(2 I1 = -0,4667

Arus 2 I2 = (V-8)/6 I2 = (10,4-8)/6 I2 = 2,4/6

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4.
$$D(K)$$

 $E = 10V$ $R = 50hm$
 $E = 10v$ $R = 10hm$
 $E = 10hm$
 $R = 10hm$
 $R = 10hm$

Step 1

$$I3 = I + I2$$

 $E3 + E + R = 0$
 $E + E3 + (R + R3) I + R3 \cdot I3 = 0$
 $10 + 4 + (G+1) I + 3I3 = 0$
 $14 + 9 I + 3 + 2 = 0$
 $9I + 3 I = 14$

$$9I_1 + 3I_2 = 14 \times 3$$

- $3I_1 + 9I_2 = 14 \times 9$

$$-27I_{1}-9I_{2}=42$$

$$-27I_{1}+81I_{2}=12L_{-}$$

$$-90I_{2}=-84$$

$$I_{2}=-84=28=$$

$$-90=30$$

$$I_3 = I_1 + I_2 = \frac{14}{5} + \frac{14}{5}$$

$$= \frac{28}{5} A$$