	Rishabh Shah
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	4655 4192
	EECS 215 HWZ
13.	$I_1 + I_2 = \lambda$ $I_2 = 12A$
	Iy +7 = I3
	2 = I4 + H I3 = 5 A
	$3+4+\frac{1}{3}=\frac{1}{4}$ $I_{4}=-2A$
	7+13=1,
	7+7+ 14=1
	14+(-2)=1,=12
	12+ 72= 2
	I <sub>2</sub> =-10
	12-7= I3=5
	I42
17	† - T
	(+) 74V EV2 SIT (+) 10V
	= ZUV = VZ = V3 = 10V
	12V
	24-v, +v2=0 V, = 2V
	$24V-V V_3 = 12V = 0$ $V_2 = -22V$ $V_3 = 10V$
	2 - 1,=0
	V,= • Z
	24-2+V <sub>2</sub> =0
	-72=V2
	24-2-12-0
11	$V_3 = 10$ .

75	V= IR= 0.005, 10000=50V
	v=0.01(vo)=0.5v) * On last page
	I= V12-10.025 mA
	V=0.0(V0)=0.5V * On last page  I= V1e=0.025 mA  8- IV= 12.5 NW
32	I, = -50 .16 = -3.2 A
	250
	T2= -700 .16= -12.8A
	250
	T3=-40 16= MAM -6.4A
	In = -60, 16 = -9.6 A
	100
41	$R_{12} = \left(\frac{1}{12} + \frac{1}{12} + \frac{1}{12}\right)^{-1} = \left(\frac{3}{12}\right)^{-1} = \frac{4}{4} \text{ ohm}$
	/1 + 1 \ -1 + 30 = 50
	[14+R 60]
	$(\frac{1}{14+12} + \frac{1}{60})^{-1} = 20$
	14+12 60)
	R= 16 ohm
44	Reg = \( \left(\frac{1}{20} \frac{1}{30}\right)^{-1} + 8\right) \\ \frac{1}{30}\right)
	= /1 +1 /- = [12 ahm]
	(20 30)

0	
25. V= IR	= 5 m A · 10 kohm = 50 V
io= 0.0	1.50 = 0.5 A
Reg = (	5 kohm 20 kohm) (20 kohm) = 4 kohm
	= 2 kV
	= 2 kV   20 kohm = 0.1 A
	: V = 0, Z k W
51, a.	Since top and bottom resistors are
	pose 2052 equal, potential across 10 ahm in middle 15
	7 3 tot 7ero
Reg = 1	1 + 1 + 1   -1 = /13   -1 = 170 ohm
0 (	$\frac{1}{30} + \frac{1}{70} + \frac{1}{10} = \frac{13}{120} = \frac{120}{13} = \frac{120}{13$
59. P= U2	· 2 - V2
R	P 10 <sup>2</sup> /
	$\frac{10^2}{40} = 302.5 \text{ ohm}$ $\frac{2}{60} = 201.7 \text{ oh}$
	2/100 = 1210hm
-	$\frac{1}{201.7} + \frac{1}{121} = 378.1 \text{ ohm}$
I= V R=	220/378.1 = 0.582A; V40= IR= 176.1V; V60= V100= 220-V10= 43.9V
P40= I2	R = 102. SW Bulb will burn out when turned on
D 121	2 = 43.92/201.7 = 9.6W Bulb will be dim when funed on
	2 = 43.92/121 = 16 W Bulb will be dim when turned on
	e 1000 bulb is wired in series with the other two connected in parallel)