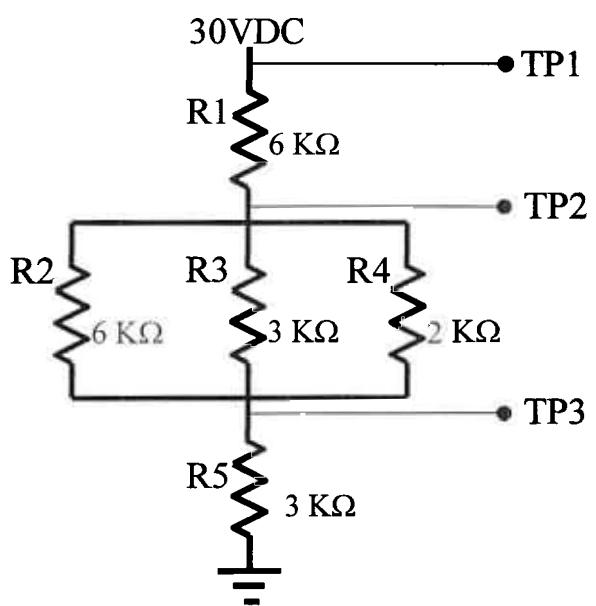


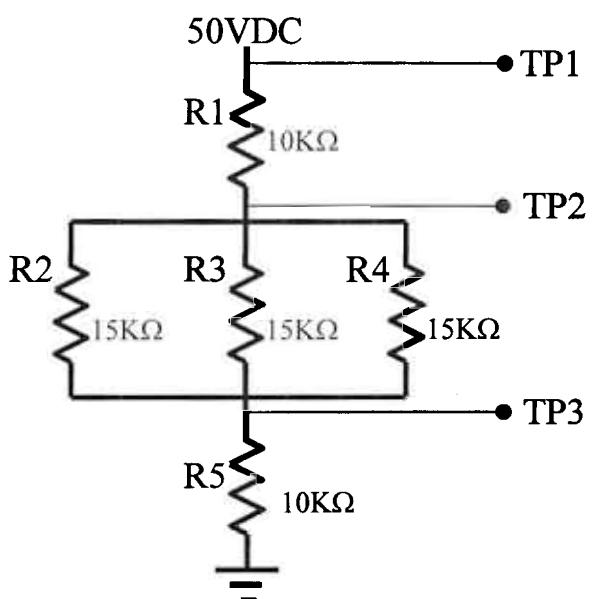
Normal	Reading *****
EA	
REQ	
RT	
IT	
ER1	
EREQ	
ER5	
ETP1	
ETP2	
ETP3	
IR2	
IR3	
IR4	



Find The Malfunction:

- 1) RT  $\downarrow$  to 9 K $\Omega$
- 2) REQ = 2 K $\Omega$
- 3) RT =  $\infty$ , ETP3 = 30VDC
- 4) RT  $\uparrow$ , IT  $\downarrow$
- 5) ER1 = 30V, EREQ = 0V, ER5 = OV
- 6) ETP1 = 30V, ETP2 = 12V, ETP3 = 12V
- 7) RT  $\uparrow$ . IR3 = OA
- 8) ER1 = 18V, EREQ = 12V, ER5 = 0V

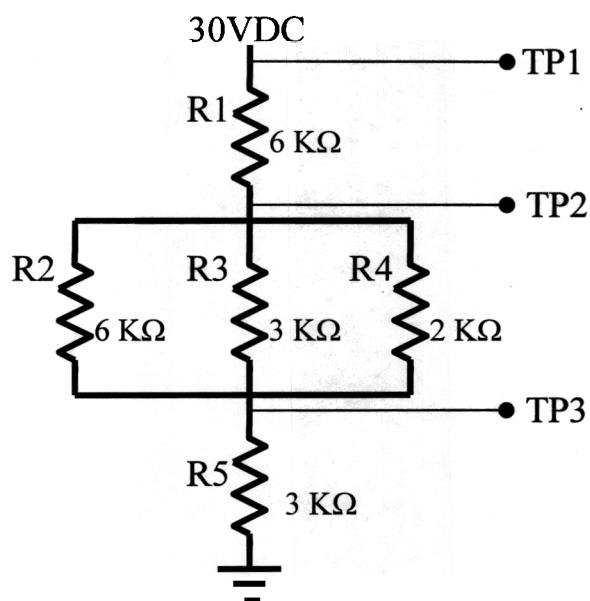
Normal	Reading *****
EA	
REQ	
RT	
IT	
ER1	
EREQ	
ER5	
ETP1	
ETP2	
ETP3	
IR2	
IR3	
IR4	



Find The Malfunction:

- 1) ER1 = 50V , EREQ = 0V , ER5 = 0V
- 2) ETP1 = 50V , ETP2 = 50V , ETP3 = 50V
- 3) ER1 = 20V , EREQ = 0V , ER5 = 30V
- 4) ETP1 = 50V , ETP2 = 25V , ETP3 = 25V
- 5) ETP1 = 50V , ETP2 = 30V , ETP3 = 0V
- 6) ETP1 = 50V , ETP2 = 0V , ETP3 = 0V

Normal	Reading *****
EA	30V
REQ	1KΩ
RT	10KΩ
IT	3mA
ER1	18V
EREQ	3V
ER5	9V
ETP1	30V
ETP2	12V
ETP3	9V
IR2	.5ma
IR3	1ma
IR4	1.5mA

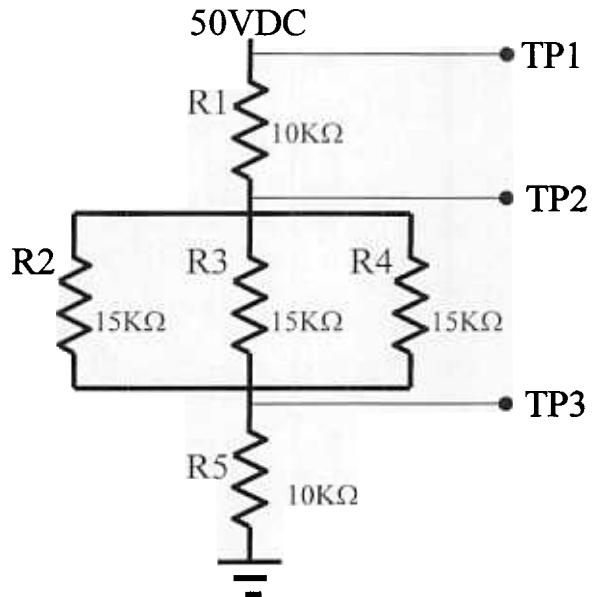


Find The Malfunction:

- 1) RT ↓ to 9 KΩ
- 2) REQ = 2 KΩ
- 3) RT =  $\infty$ , ETP3 = 30VDC
- 4) RT ↑, IT ↓
- 5) ER1 = 30V, EREQ = 0V, ER5 = OV
- 6) ETP1 = 30V, ETP2 = 12V, ETP3 = 12V
- 7) RT ↑. IR3 = OA
- 8) ER1 = 18V, EREQ = 12V, ER5 = 0V

**REQ SHORT**  
**R4 Open**  
**R5 Open**  
**REQ Open**  
**R1 Open**  
**REQ Short**  
**R3 Open**  
**R5 Short**

Normal	Reading *****
EA	50VDC
REQ	5 KΩ
RT	25 KΩ
IT	2mA
ER1	20VDC
EREQ	10VDC
ER5	20VDC
ETP1	50VDC
ETP2	30VDC
ETP3	20VDC
IR2	.666mA
IR3	.666mA
IR4	.666mA



Find The Malfunction:

- 1) ER1 = 50V , EREQ = 0V , ER5 = 0V
- 2) ETP1 = 50V , ETP2 = 50V , ETP3 = 50V
- 3) ER1 = 20V , EREQ = 0V , ER5 = 30V
- 4) ETP1 = 50V , ETP2 = 25V , ETP3 = 25V
- 5) ETP1 = 50V , ETP2 = 30V , ETP3 = 0V
- 6) ETP1 = 50V , ETP2 = 0V , ETP3 = 0V

***R1 OPEN***  
***R5 OPEN***  
***REQ SHORT***  
***REQ SHORT***  
***R5 SHORT***  
***R1 OPEN***