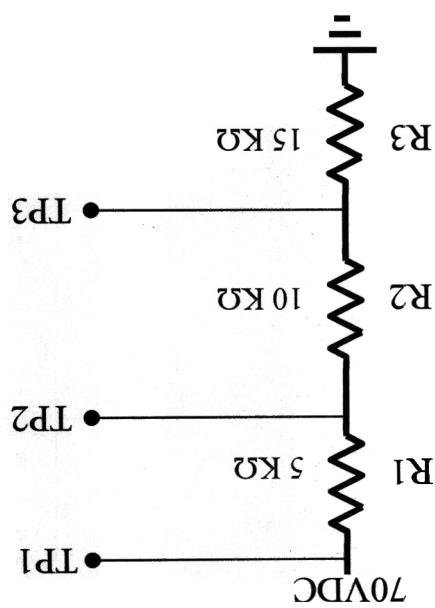


- 1) If R₁ were to increase in ohm value, what would happen to the total current?
- 2) R₂ is open, What is E_{R3}
- 3) E_{TP1} = 70V E_{TP2} = 70V E_{TP3} = 0V What is the malfunction?
- 4) E_{TP1} = 70V E_{TP2} = 17V E_{TP3} = 0V What is the malfunction?
- 5) R₃ is shorted, what happened to I_{R2}?

| | |
|------------------|------------------|
| Normal | Reading **** |
| EA | RT |
| ER1 | IT |
| ER2 | E _{R1} |
| ER3 | E _{R2} |
| E _{TP1} | E _{TP2} |
| E _{TP2} | E _{TP3} |
| E _{TP3} | |
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| | |

| | |
|------------------|---------------------|
| Normal | R ₁ Open |
| EA | RT |
| ER1 | IT |
| ER2 | E _{R1} |
| ER3 | E _{R2} |
| E _{TP1} | E _{TP2} |
| E _{TP2} | E _{TP3} |
| E _{TP3} | |
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| | |
|------------------|------------------|
| Normal | Reading **** |
| ER1 | E _{TP1} |
| ER2 | E _{TP2} |
| ER3 | E _{TP3} |
| E _{TP1} | |
| E _{TP2} | |
| E _{TP3} | |
| | |
| | |
| | |
| | |
| | |



10) $R_T = \infty$ $I_T =$ _____ $E_R1 = 0V$ $E_R2 =$ _____ $E_R3 = 0V$

9) If the voltage drop of R_1 and R_2 increase what happened to E_R3 Voltage

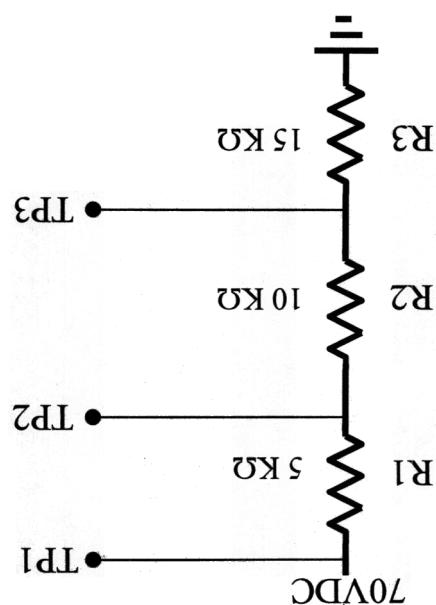
8) R_2 is shorted, what happened to E_R1 , E_R3

7) $I_{R1} = 0A$ what is the malfunction?

6) Any open in any resistor makes resistance and current

- 5) R₃ is shorted, what happened to I_T? **CURRENT ↓**
- 4) ETP₁ = 70V ETP₂ = 17V ETP₃ = 0V What is the malfunction? **R₃ SHORT**
- 3) ETP₁ = 70V ETP₂ = 70V ETP₃ = 0V What is the malfunction? **R₃ OPEN**
- 2) R₂ is open, What is E_{R3} **0V** E_{R1} **0**
- 1) If R₁ were to increase in ohm value, what would happen to the total current? **↑**

| | Reading *** |
|----------------------|-------------|
| R ₁ Short | Normal |
| E _A | 70 VDC |
| R _T | 25kΩ |
| I _T | 2.33mA |
| E _{R1} | 11.65V |
| E _{R2} | 23.3V |
| E _{R3} | 34.95V |
| ETP ₁ | 70 V |
| ETP ₂ | 70 VDC |
| ETP ₃ | 42 V |
| ER ₁ | 0 V |
| ER ₂ | 28 V |
| ER ₃ | 42 V |
| ETP ₁ | 70 V |
| ETP ₂ | 0V |
| ETP ₃ | 0V |
| E _A | 70 VDC |
| R _T | Imfinite Ω |
| I _T | 0mA |
| E _{R1} | 70 V |
| E _{R2} | 0 V |
| E _{R3} | 0V |
| ETP ₁ | 70 V |
| ETP ₂ | 70 VDC |
| ETP ₃ | 34.95 V |
| ER ₁ | 11.65 V |
| ER ₂ | 23.3 V |
| ER ₃ | 34.95 V |
| ETP ₁ | 70 V |
| ETP ₂ | 58.25 V |
| ETP ₃ | 34.95 V |
| E _A | 70 VDC |
| R _T | 30kΩ |
| I _T | 2.33mA |
| E _{R1} | 11.65 V |
| E _{R2} | 23.3 V |
| E _{R3} | 34.95 V |
| ETP ₁ | 70 V |
| ETP ₂ | 70 VDC |
| ETP ₃ | 42 V |



10) $R_T = \infty$ $I_T = 0$ $E_R1 = 0V$ $E_R2 = EA$ $E_R3 = 0V$

9) If the voltage drop of R_1 and R_2 increase what happened to E_R3 Voltage \uparrow .

8) R_2 is shorted, what happened to E_R1 \downarrow , E_R3 \downarrow

7) $I_{R1} = 0A$ what is the malfunction? $R1$ OPEN

6) Any open in any resistor makes resistance \downarrow and current \uparrow .