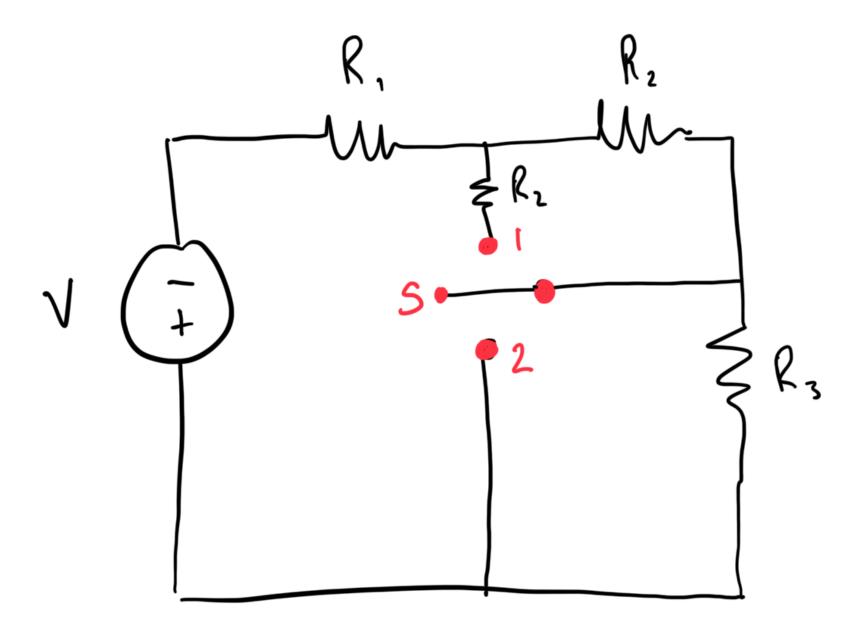
## More Civarits



Position as shown:  $R_1 \qquad R_2$   $V = \frac{V}{R_1 + R_2 + R_3}$ 

Pazition !:

RI

Position 2: 

(2) 
$$R_1 + \frac{1}{2} R_2 + R_3 = \frac{1}{2} \frac{1}{2} \frac{1}{2}$$

$$(3) \qquad R_1 + R_2 = \frac{1}{i_3}$$

$$\begin{pmatrix} 1 & 1 & 1 \\ 1 & \frac{1}{2} & 1 \\ 1 & 1 & 0 \end{pmatrix} \begin{pmatrix} R_1 \\ R_2 \\ R_3 \end{pmatrix} = \begin{pmatrix} V/i_1 \\ V/i_1 \\ V/i_3 \end{pmatrix}$$

$$i_1 = 1 m A$$

$$i_2 = 1.25 m A$$

$$i_3 = 1.80 m A$$

$$= \begin{bmatrix} 6006.00 \\ 4800.00 \\ 3731.33 \end{bmatrix}$$

$$R_1 = 933.2 \Omega$$

$$R_2 = 2400 \Omega$$

$$R_3 = 2666.67 \Omega$$

Loop Rules: 
$$70p \rightarrow 25 - 10i_4 - 10i_1 = 0$$
  
mildle  $\rightarrow -5i_3 + 10i_4 = 0$ 

$$MV = 32i\mu = 5.80 V$$

AB