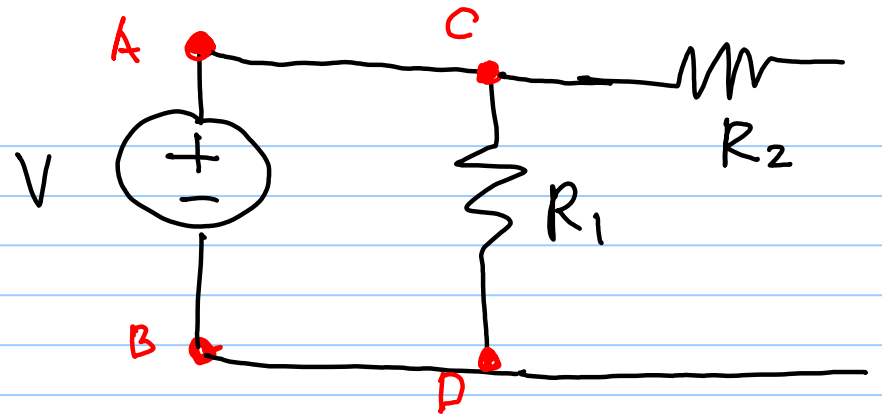
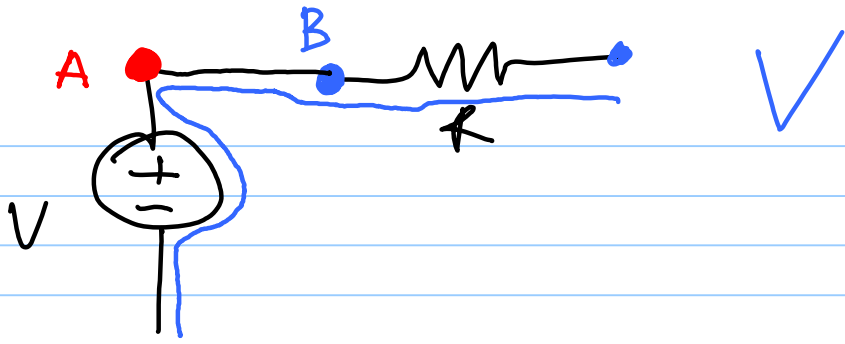


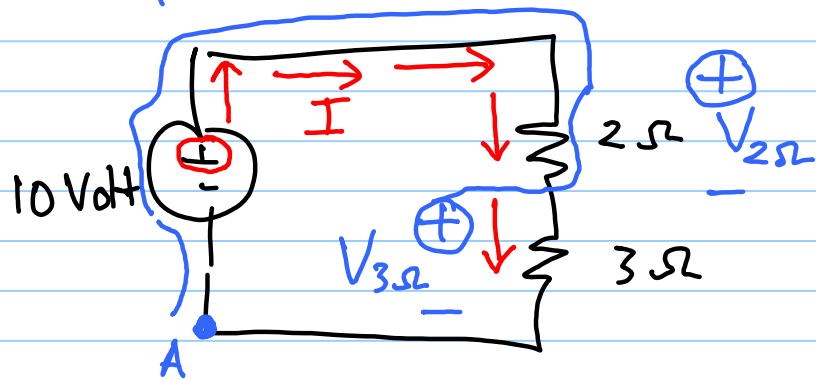
Hubung Seri & Hubung Paralel

1. Hubung seri $\xrightarrow{\text{syarat}}$ - salah satu dari kedua ujung elemen terhubung
AKIBATNYA
- arus yg mengalir sama besar
2. Hubung Paralel $\xrightarrow{\text{syarat}}$ - kedua ujung dari kedua elemen terhubung
AKIBATNYA
- teg yg melintas di kedua elemen sama besar



Sifat Hubung Seri & Hubung Paralel

1. Sifat Hubung Seri



Kesimpulan:

1. Pd hub. seri nilai resistor digumlahkan.

Arus mengalir dari potensial

⊕ → ⊖

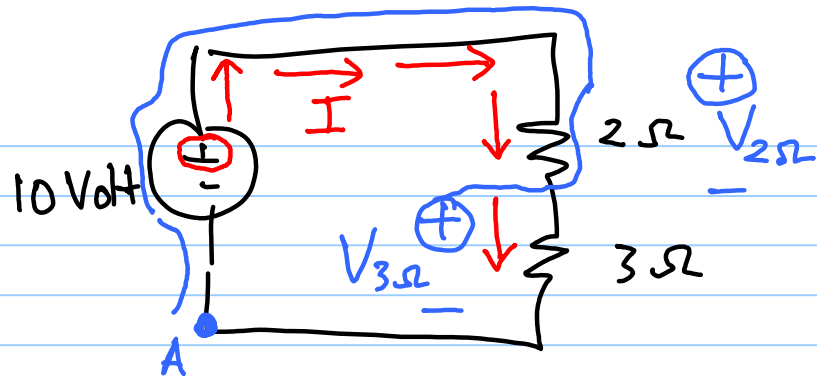
$$\boxed{\sum V = 0}$$

$$-10 + V_{2\Omega} + V_{3\Omega} = 0$$

$$-10 + I \cdot 2 + I \cdot 3 = 0$$

$$I(2 + 3) = 10$$

$$I = \frac{10}{2+3} = \frac{10}{5} = 2A$$



$$V_{3\Omega} = \frac{3}{2+3} \times 10 = 6 \text{ Volt}$$

2. Pd hubung seri berlaku pembagi teg.

$$V_{2\Omega} = I \cdot 2$$

$$I = \frac{10}{2+3}$$

$$V_{2\Omega} = \frac{10 \times 2}{2+3}$$

$$V_{2\Omega} = \frac{2}{2+3} \times 10 = 4 \text{ Volt}$$

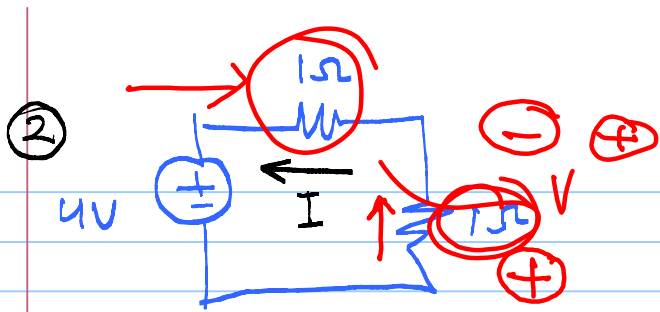
①



$$I = \frac{8}{1+3} = 2A$$

$$V = \frac{3}{3+1} \times 8 = 6 \text{ volt}$$

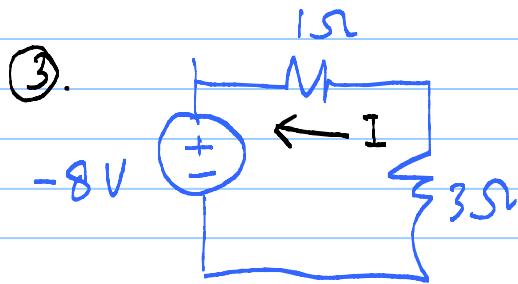
$$V = 3 \times 2 = 6 \text{ volt}$$



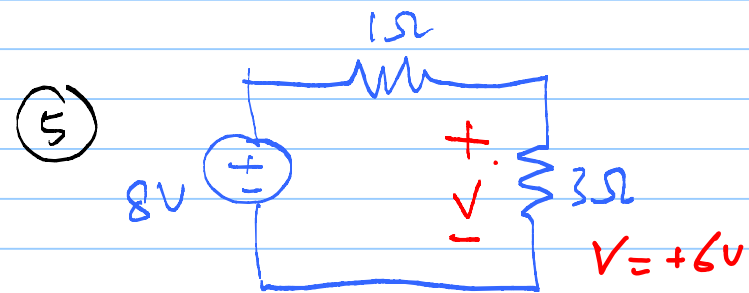
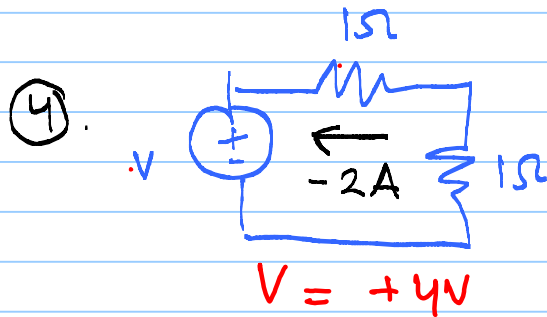
$$I = \frac{-4}{1+1} = -2A$$

$$V = I \cdot R = -2 \cdot 1 = -2 \text{ volt}$$

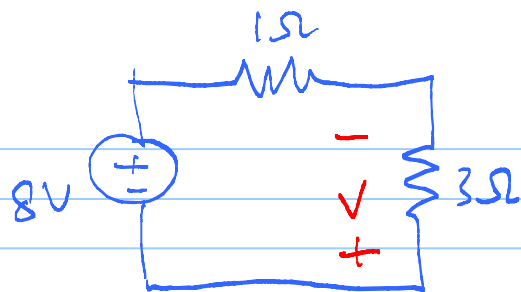
$$V = \frac{1}{1+1} \times (-4) = -2 \text{ volt}$$



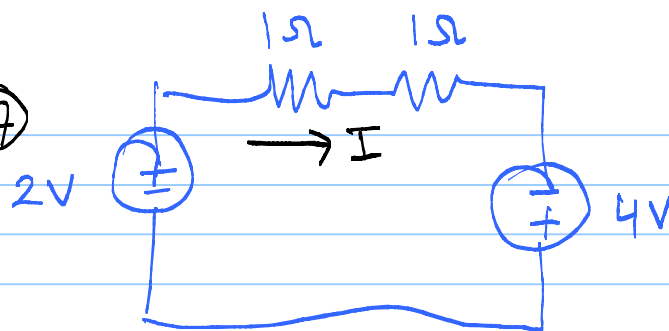
$$I = +2A$$



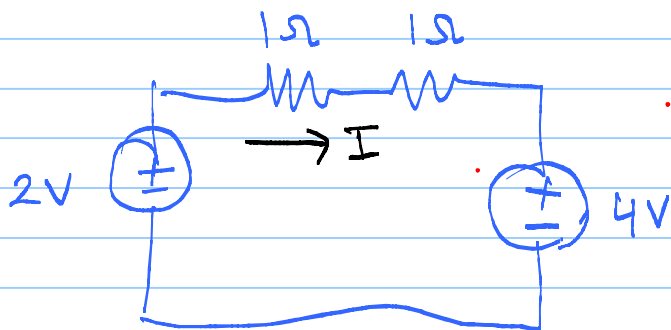
6



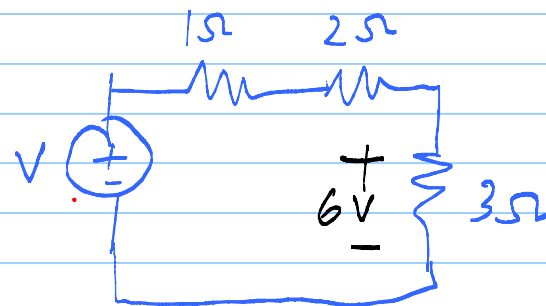
7



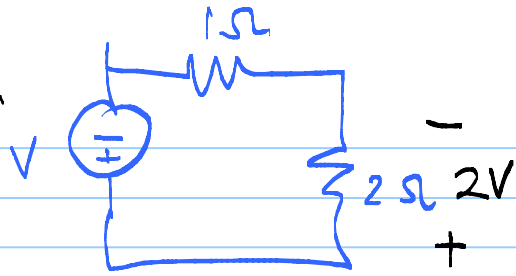
8



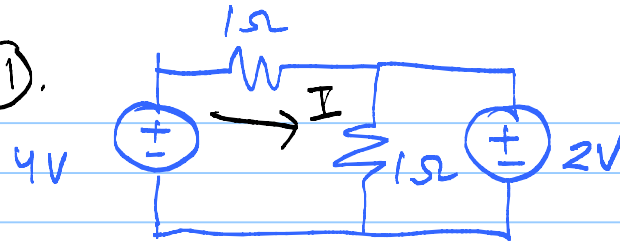
9



10

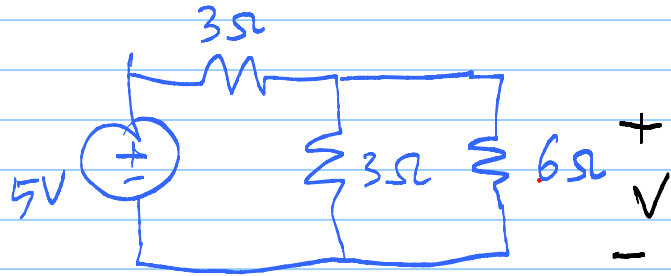


11



Tugas
11, 12, 13

12



13

