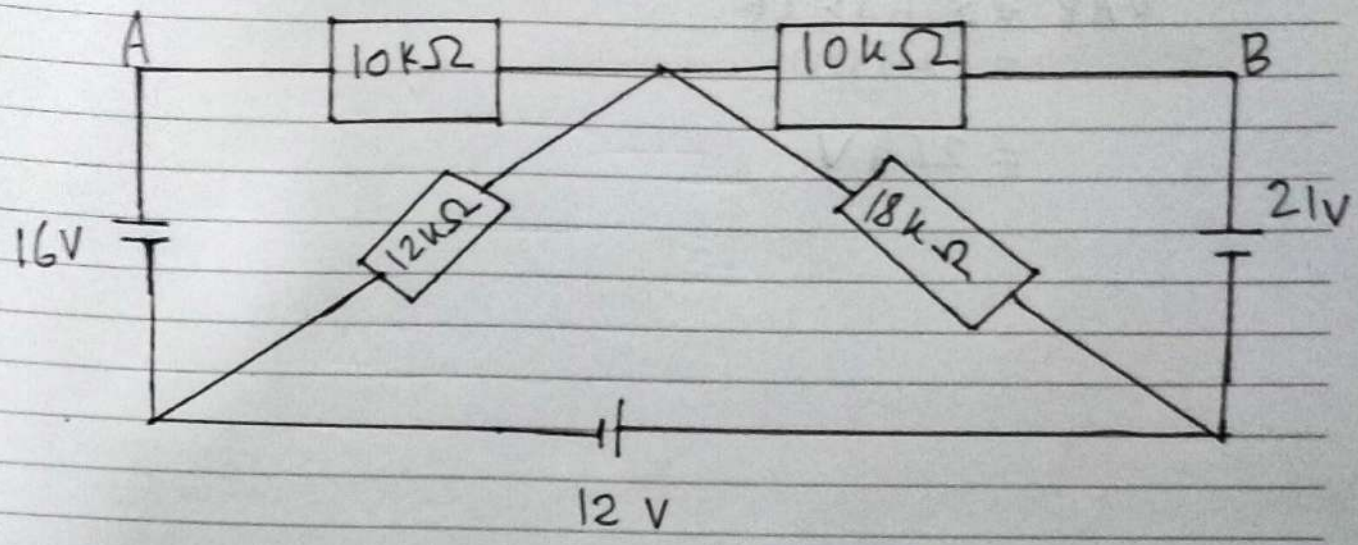
Nama : Andri Firman Saputra — Fisika Dasar II

NIM : 2010114021 25 — Pertemuan 11 — No / Date

3. Diketahui :



(a) Tentukan arus yg melalui baterai 16 V

Loop 1 :

$\Sigma \varepsilon + \Sigma IR = 0$

$-16V + 10kI + 12kI = 0$

$10kI + 12kI = 16V$

Loop 2 :

$\Sigma \varepsilon + \Sigma IR = 0$

$21V + 10kI + 18kI = 0$

$10kI + 18kI = -21V$

Loop 3 :

$\Sigma \varepsilon + \Sigma IR = 0$

$-12V + 18kI + 12kI = 0$

$18kI + 12kI = 12V$

$10I + 12I = 0,016V$

$10I + 18I = -0,021V$

$18I + 12I = 0,012V$

$\begin{bmatrix} 10 & 12 \\ 10 & 18 \\ 18 & 12 \end{bmatrix}$ $I_1 = 22A$

$I_2 = 28A$

$I_3 = 30A$

JOYKO 30 Lines, 6 mm

No
Date

B. Beda potensial antara titik A dan B

$V_{AB} = \Sigma E + \Sigma IR$

$= (22)(12)$

$= 264\ V$

JOYKO