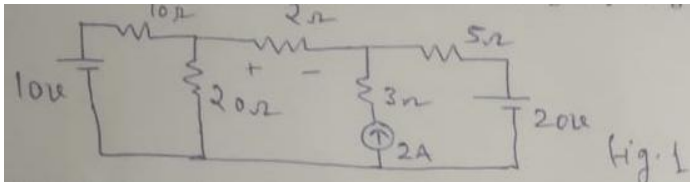


**JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY**  
**Electronics and Communication Engineering**  
**Electrical Science-1 (15B11EC111)**  
**Tutorial Sheet: 5**

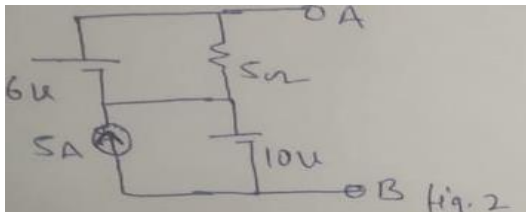
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**Q1. [CO2] Find the voltage across  $2\Omega$  resistor in fig. 1 by using Superposition theorem.**

**Ans.(-3.41 volt)**

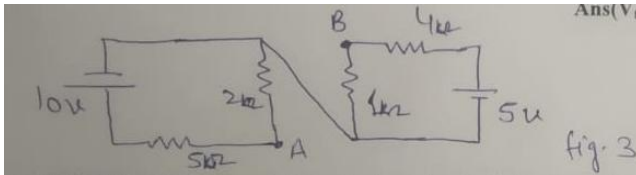


**Q2. [CO1] Determine the voltage across the terminal A & B in the shown fig. 2. Ans(16 V)**



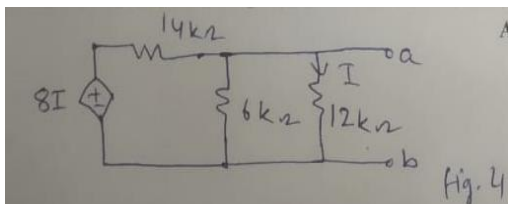
**Q3.[CO2] Determine the Thevenin's equivalent circuit across terminal A & B for the fig. 3.**

**Ans( $V_{th}=1.85V, R_{th}=2.23K\Omega$ )**



**Q4[CO2] Find the thevenin's equivalent circuit of the shown fig. 4.**

**Ans( $V_{th}=0, R_{th}=3.65K\Omega$ )**



**Q.5[CO2] Find  $V_0$  in the shown fig.5 by using Norton's theorem.**

**Ans( $I_{sc}=1.5A, R_{th}=12/9.5, V_0=36/19V$ )**

