**Q1. [CO2] Find the voltage across 2Ω resistor in fig. 1 by using Superposition theorem.**
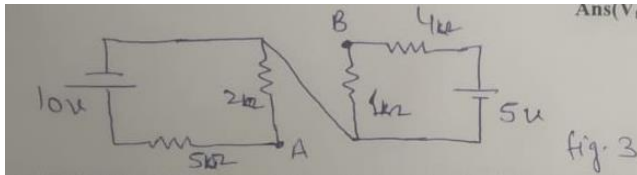
Ans.(-3.41 volt)



Fig. 1
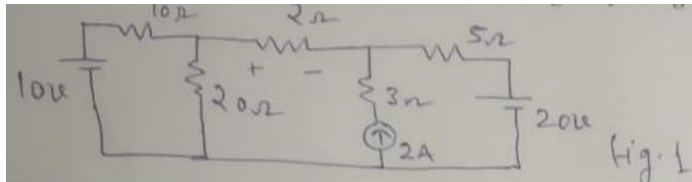
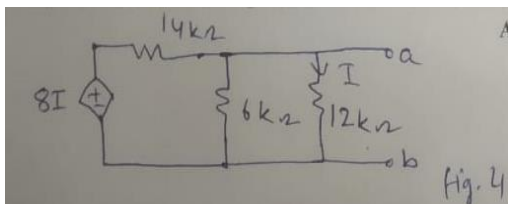**Q2. [CO1] Determine the voltage across the terminal A & B in the shown fig. 2. Ans(16 V)**



fig. 2
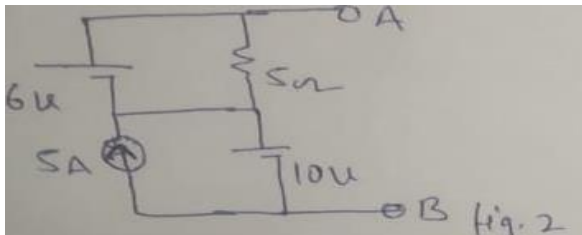
**Q3.[CO2] Determine the Thevenin's equivalent circuit across terminal A &B for the fig. 3.**

Ans($V_{th}$=1.85V,$R_{th}$=2.23K Ω)



fig. 3

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

Ans($V_{th}$=0,$R_{th}$=3.12KΩ)



fig. 4

**Q.5[CO2] Find $V_{th}$ and $R_{th}$ in the circuit shown fig.5 .**

Ans($I_{sc}$=1.5A,$R_{th}$=24/13,$V_{th}$=36/13V)



fig. 5