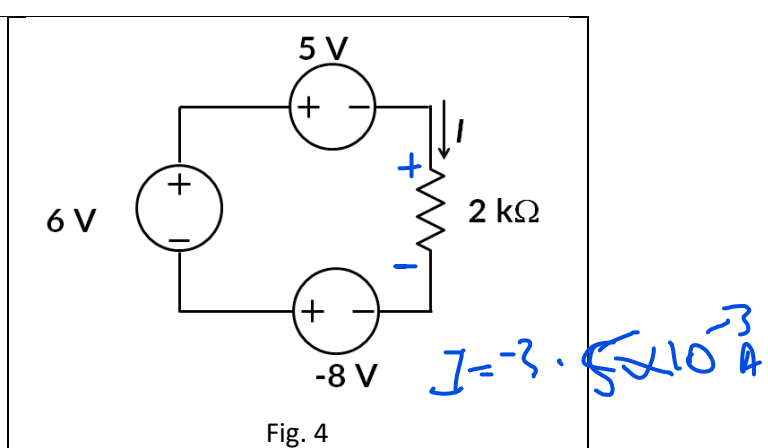
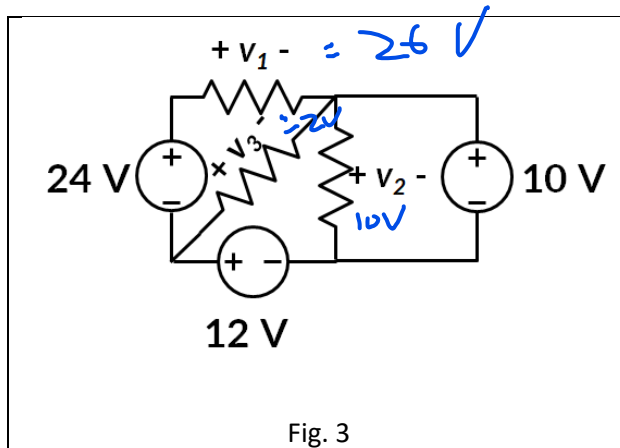
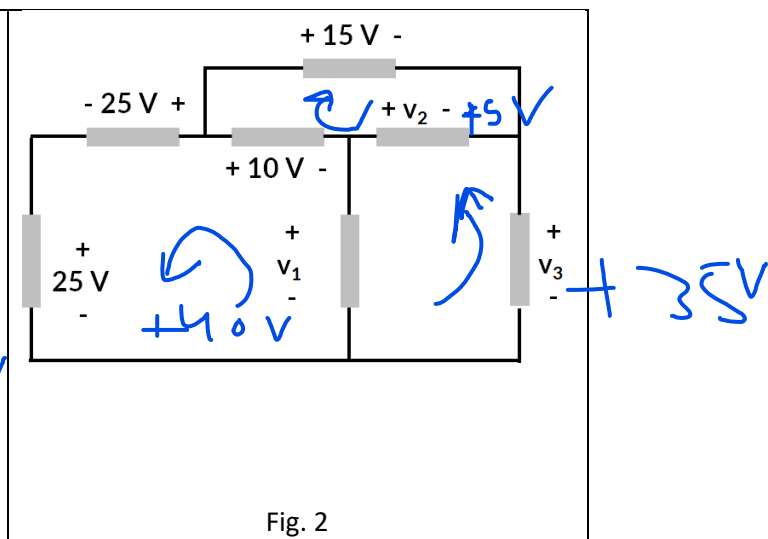
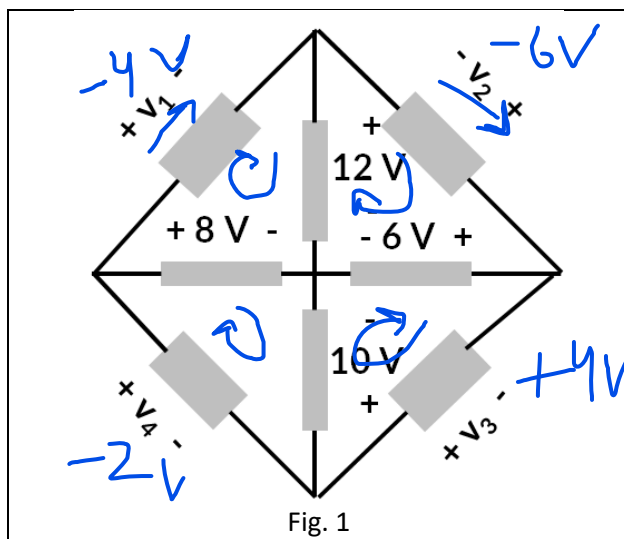


Department of ECE, Bennett University

EECE105L: Fundamentals of Electrical and Electronics Engineering

Tutorial Sheet-2

1. For the circuit shown in fig. 1, determine  $V_1$  through  $V_4$ .
2. For the circuit shown in fig. 2, determine  $V_1$ ,  $V_2$  and  $V_3$ .
3. For the circuit shown in fig. 3, determine  $V_1$ ,  $V_2$  and  $V_3$ .
4. Find the current  $I$  and the power absorbed or supplied by each element in the circuit shown in fig. 4.



----- END OF QUESTIONS -----

Answers:

- 1)  $v_1 = -4 \text{ V}$ ,  $v_2 = -6 \text{ V}$ ,  $v_3 = 4 \text{ V}$ ,  $v_4 = -2 \text{ V}$
- 2)  $v_1 = 40 \text{ V}$ ,  $v_2 = 5 \text{ V}$ ,  $v_3 = 35 \text{ V}$
- 3)  $v_1 = 26 \text{ V}$ ,  $v_2 = 10 \text{ V}$ ,  $v_3 = 2 \text{ V}$
- 4)  $I = -3.5 \text{ mA}$