

長庚大學107學年度研究所碩士班招生考試試題

系所：電機工程學系碩士班

考試科目：電路學

注意：請詳細閱讀下列試題，並請標明題號依試題順序將答案書寫於答案卷上。

本試題共2頁：第1頁

1. For the network in Fig 1, find R_{AB} . (10%)

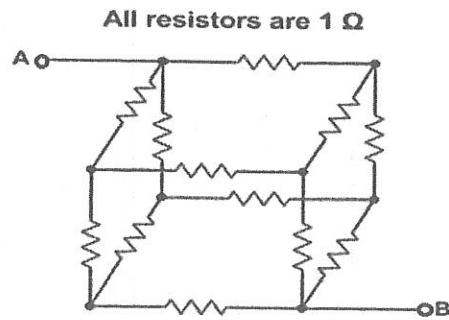


Fig. 1

2. For the network in Fig 2, find R_{ab} and I . (20%)

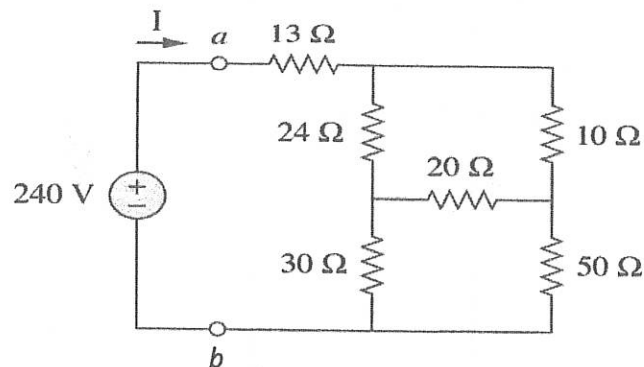


Fig. 2

3. Find the Thevenin equivalent circuit of the circuit in Fig.3 at terminals $a-b$. (20%)

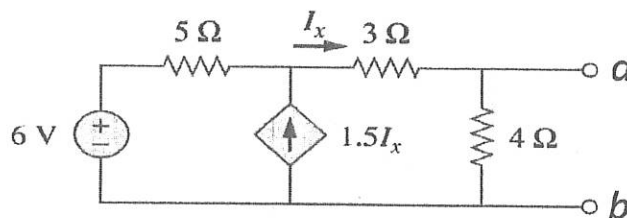


Fig. 3

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4. Please to determine $v(t)$ for $t > 0$ in circuit of Fig. 4, $v(0)=0$. (25%)

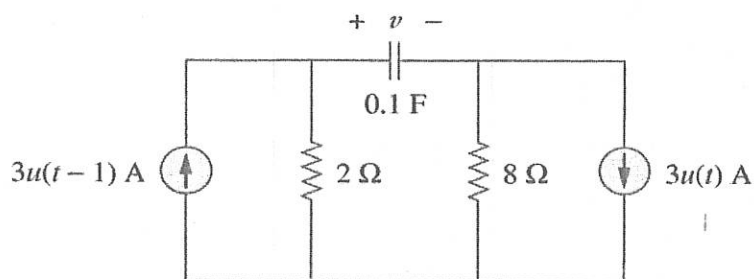


Fig. 4

5. Calculate V_1 and V_2 in the circuit of Fig. 5. (25%)

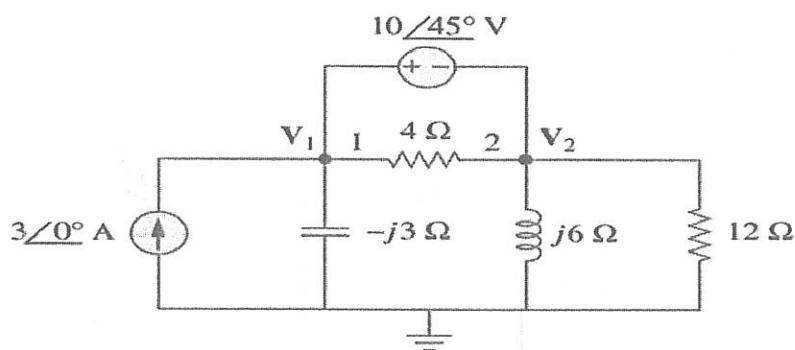


Fig. 5