

系組：電機工程學系三年級

日期節次：7 月 25 日第 2 節 10:50-12:10

科目：電路學

11.7.2

1. Calculate the equivalent resistance  $R_{ab}$  in the Fig 1 (20%)

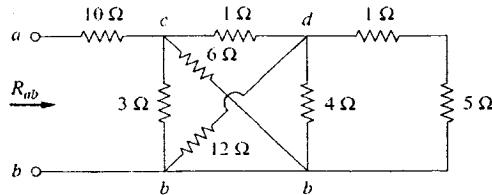


Fig. 1

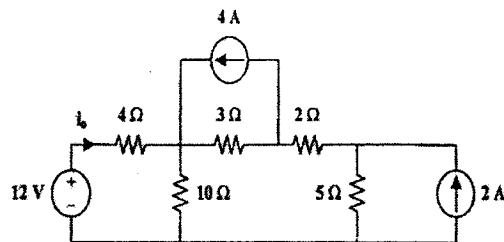


Fig. 2

2. Find  $i_o$  in the circuit of Fig. 2 (20%)

3. Find the Thevenin equivalent as seen by R in Fig. 3 (20%)

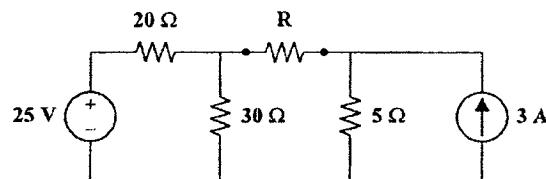


Fig. 3

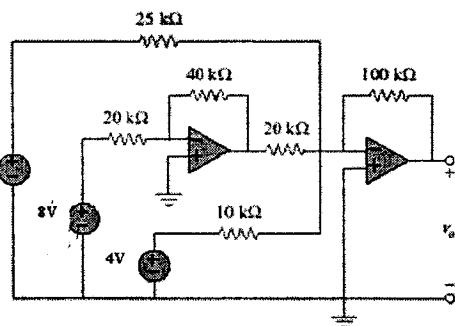


Fig. 4

4. For the circuit in Fig. 4, find  $v_o$ . (20%)

5. Determine  $V_x$  in the circuit shown in Fig. 5. Let  $i_s(t) = 5 \cos(100t + 40^\circ)$ . (20%)

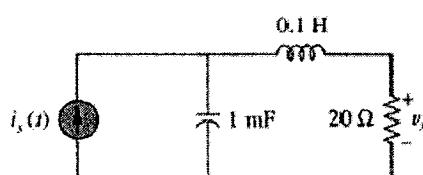


Fig. 5

第 / 頁 共 / 頁