

中國文化大學 102 學年度暑假轉學招生考試

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

1. 20%

Find the equivalent resistance at terminals a-b of circuit in Fig. 1.

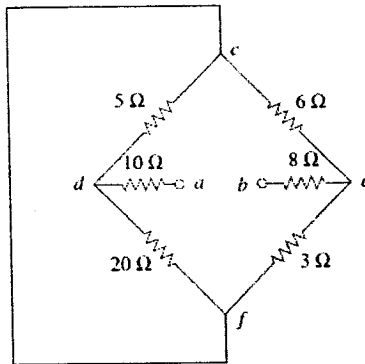


Fig. 1

2. 20%

Find i_o in the circuit of Fig. 2

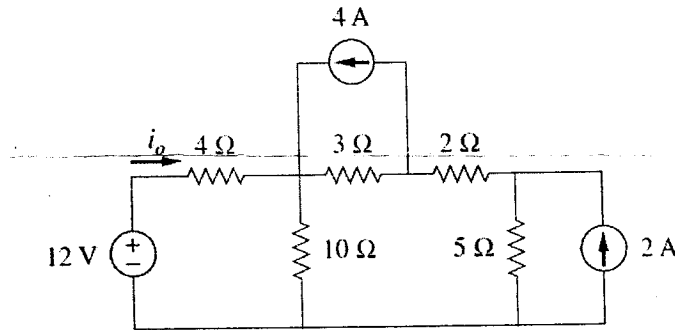


Fig. 2

3. 20%

Find the Thevenin equivalent as seen by R in Fig. 3

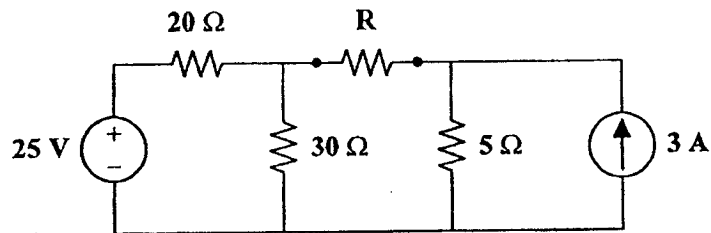


Fig. 3

中國文化大學 102 學年度暑假轉學招生考試

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

4. 20%

For the circuit in Fig. 4, find v_o .

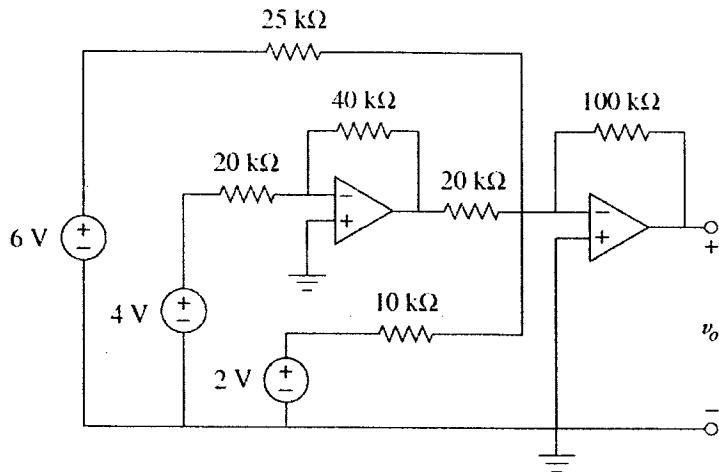


Fig. 4

5. 20%

The switch in Fig. 5 has been in position a for a long time. At $t = 0$, it moves to position b . Calculate $i(t)$ for all $t > 0$.

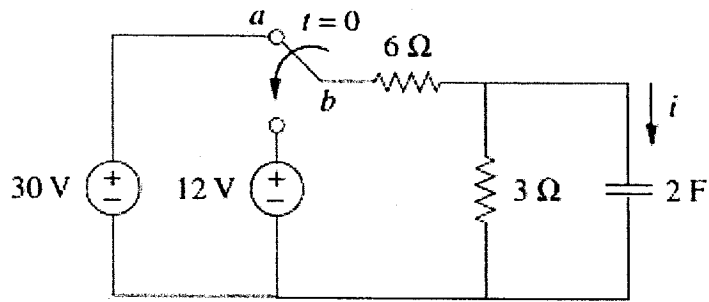


Fig. 5