

國立虎尾科技大學 105 學年度第一學期博士班資格考

試題

系別：動力機械系機械與機電工程博士班

第 1 頁

共 2 頁

科目：電路學

注意事項：

- (1) 本試題共有 7 題，每題 15 分，合計一百分。
- (2) 請依序作答於答案卷上並註明題號，若未註明選答題號及超過規定題數時，謹採計作答順序較前之題目計分。
- (3) 可使用計算機 open book

1. Find the I for the network of Fig.1

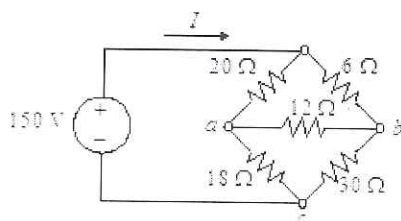


Fig.1

2. Find the i for the network of Fig.2

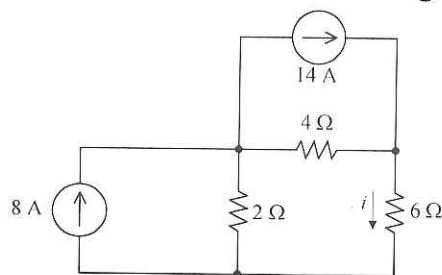


Fig.2

3. If $V=36V$, Find the i for the network of Fig.3

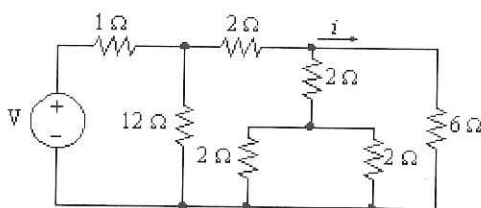


Fig.3

4. If $R=5\Omega$, Find the I through the R for the network of Fig.4

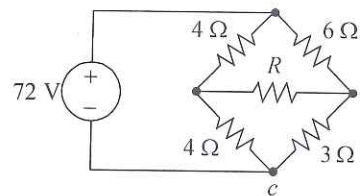


Fig.4

5. Find the i for the network of Fig.5

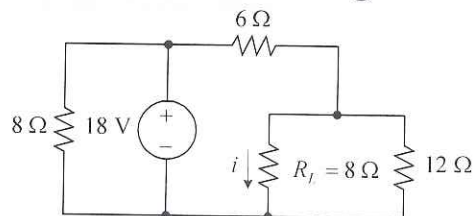


Fig.5

6. Find the I and R for the network of Fig.6

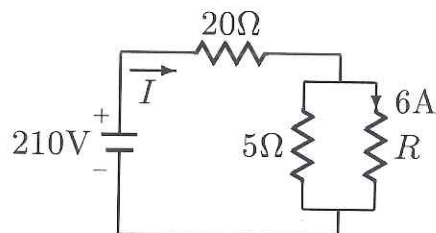


Fig.6

7. If $i(0^-)=2\text{ A}$, Find the $i(t)$ of $t > 0$ for the network of Fig.7

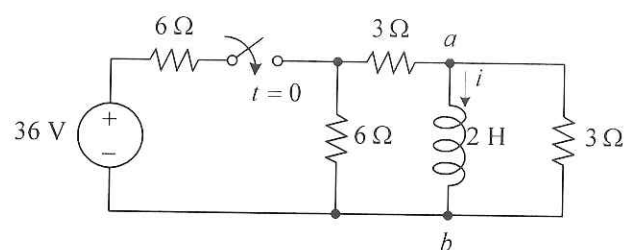


Fig.7