

# 淡江大學 98 學年度轉學生招生考試試題

系列：電機工程學系三年級

科目：電 路 學

准帶項目請打「V」	
X	計算機

本試題共 4 大題，

頁

1. The switch in Fig.1 has been closed for a long time. It is open at  $t=0$ . Find  $v(t)$ . (25%)

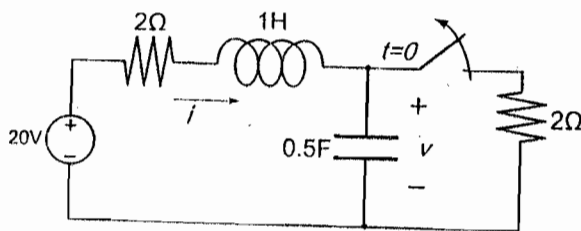


Fig.1

2. Find the *Norton equivalent* of the circuit in Fig.2 to the left of terminals a-b. Use the result to find current  $i$ . (25%)

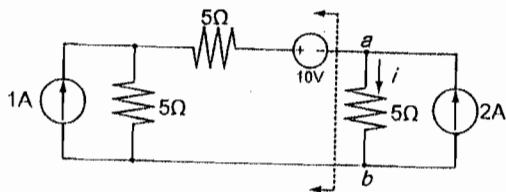


Fig.2

3. If  $0.1\psi\Omega$  is system load. Find the *Thevenin equivalent* circuit at the terminal a-b in Fig.3 Use the result to find current  $i$ . (25%)

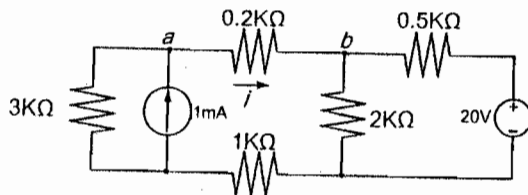


Fig.3

4. As shown in Fig. 4, find the voltage  $v$ . (25%)

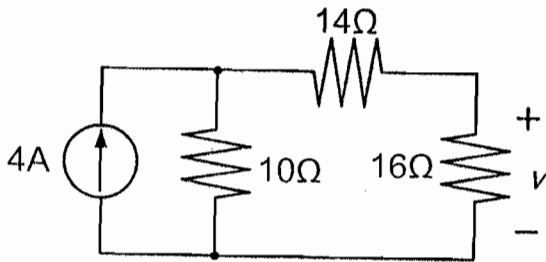


Fig.4