淡江大學九十一學年度日間部轉學生招生考試試題

系別：電機工程學系三年級　　　科目：電　路　學

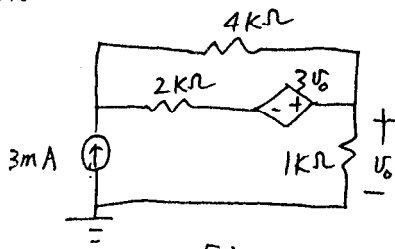| 准帶項目請打「○」否則打「×」 |
| --- |
| 計　算　機 |
| ○ |

1. Find v_o in the circuit of Fig. 1.
25%

Fig. 1

2. The switch in Fig. 2 has been closed for a long time and is opened at $t = 0$. Find $i(t)$ for $t \geq 0$.
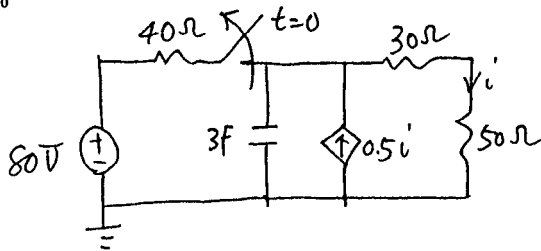25%

Fig. 2

3. If $v_1(0) = 2$ V and $v_2(0) = 0$ V in the circuit of Fig. 3, find $v_o(t)$ for $t \geq 0$.
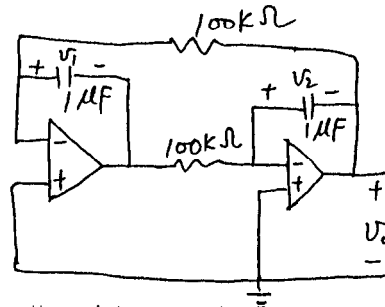25%

Fig. 3

4. The switch in the circuit of Fig. 4 has been closed for a long time and is opened at $t = 0$, use Laplace transform to find $v_o(t)$ for $t \geq 0$.
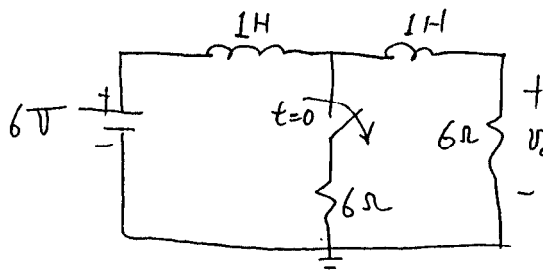25%

Fig. 4