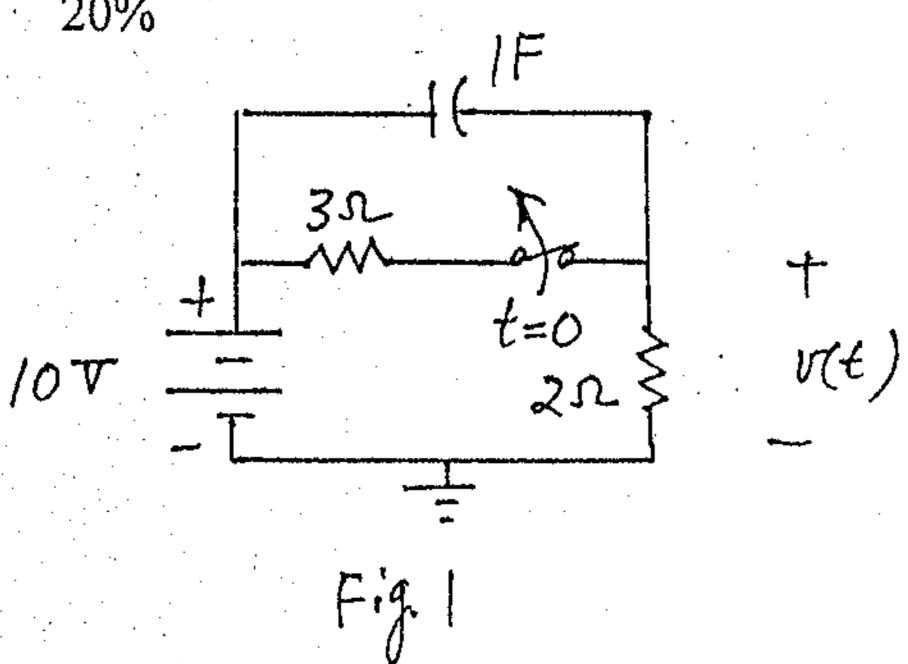
淡江大學八十八學平度日間部轉學生招生考試試題

系别:電機工程學系三年級

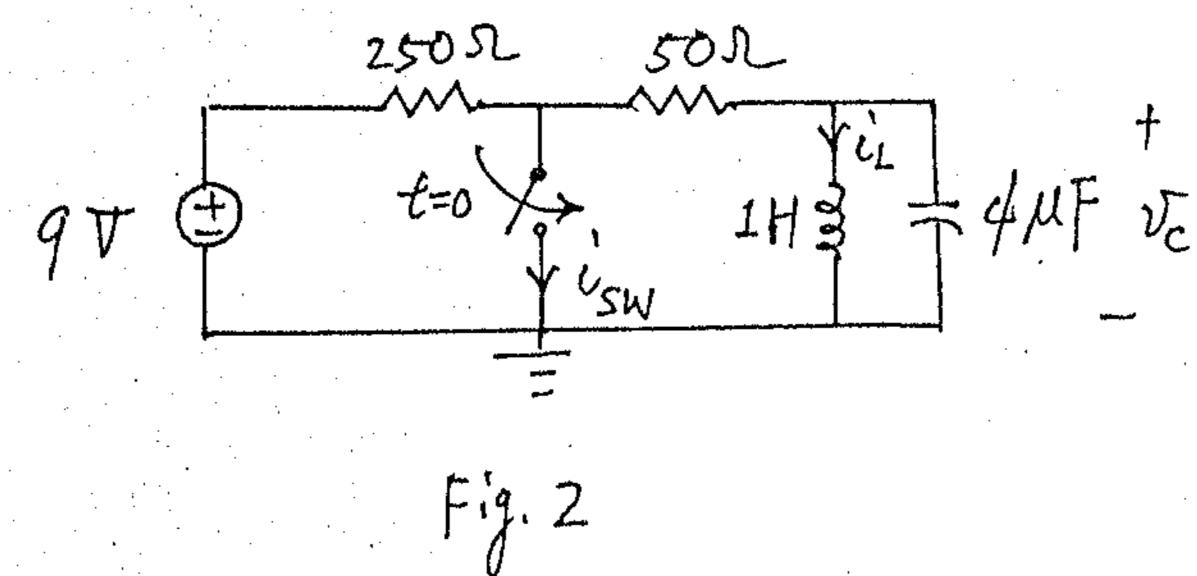
科目:電路學

本試題共 / 頁

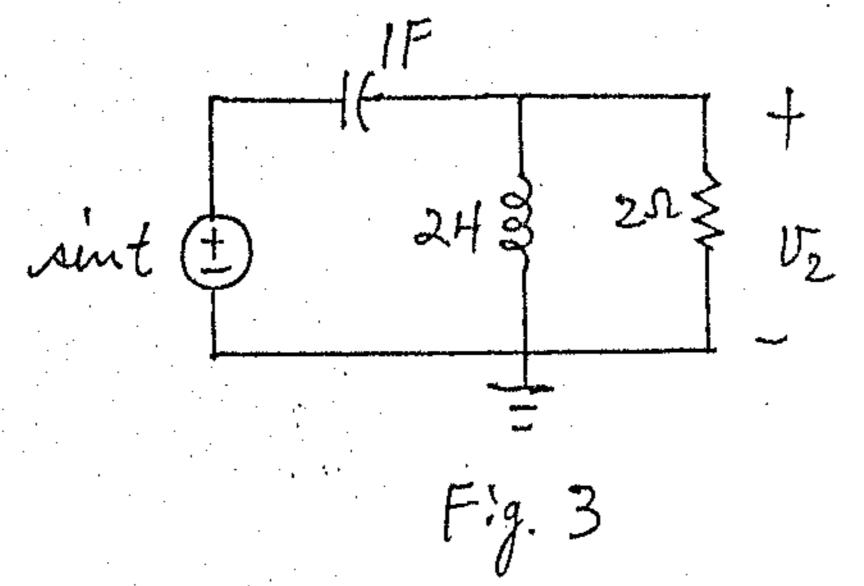
1.(Fig. 1) The switch has been closed for a long time and is opened at t=0. Find the voltage v(t) for $t\ge 0$. 20%



- 2. (Fig. 2) The switch has been open for a long time and is closed at t=0.
- (a) Find the inductor current $i_L(t)$ for $t \ge 0$.
- (b) Find the capacitor voltage $v_C(t)$ and current through the switch $i_{SW}(t)$ for ≥ 0 .



3. (Fig.3) If all variables in the network have reached the steady state, find $v_2(t)$. 25%



4. (Fig. 4) Switch S1 has been closed for a log time and is opened at t=0. Use Laplace transform method to find $v_2(t)$ for $t\ge 0$. 25%

