

淡江大學 105 學年度進修學士班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

3-1

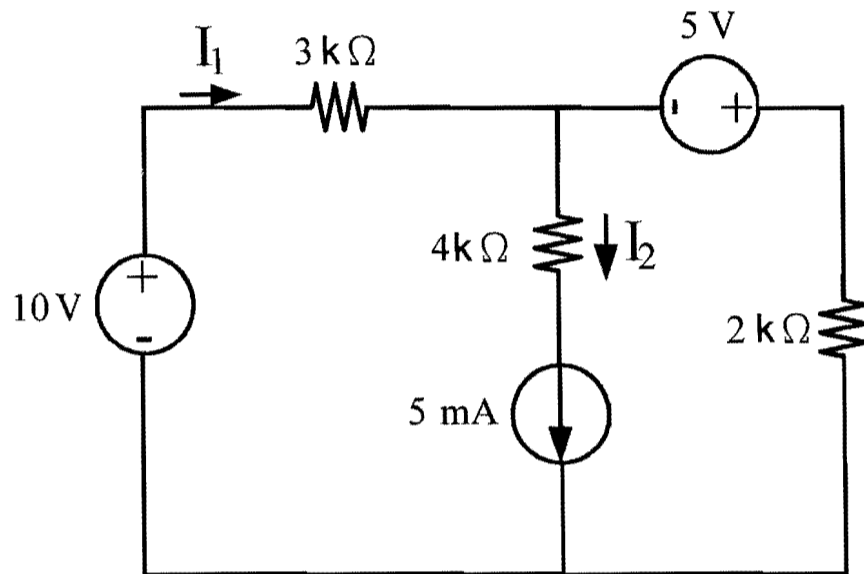
考試日期：7月20日(星期三) 第1節

本試題共 4 大題， 2 頁

本試題雙面印刷

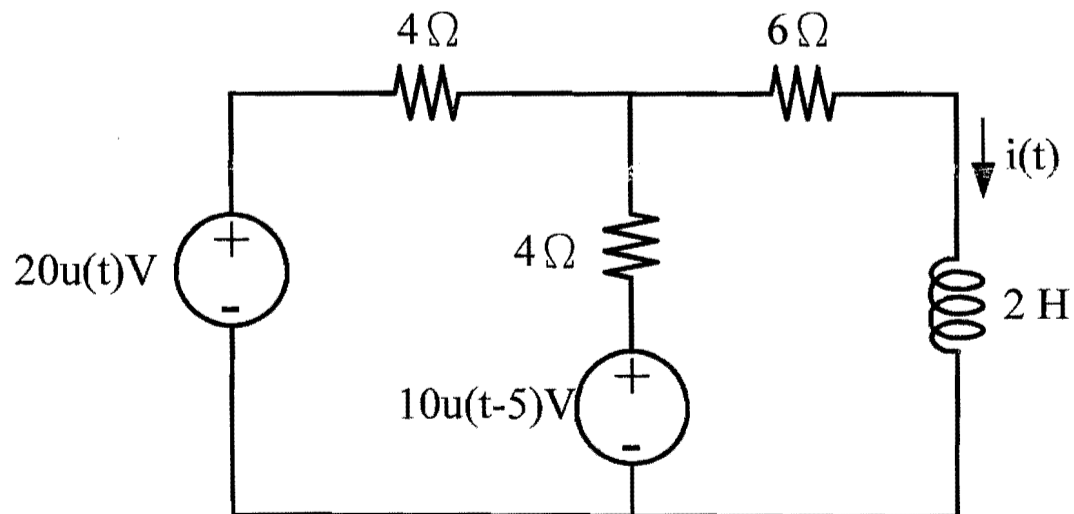
1. Consider the following circuit.

- (a) Find I_1 and I_2 . (10%)
- (b) Find power dissipation of each resistor. (10%)
- (c) Find power supply of each source. (10%)



2. Consider the following circuit.

- (a) Draw time domain waveform of the two voltage source. (10%)
- (b) Find $i(t)$. (10%)
- (c) Calculate i for $t=2$ sec and 6 sec. (10%)



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3-2

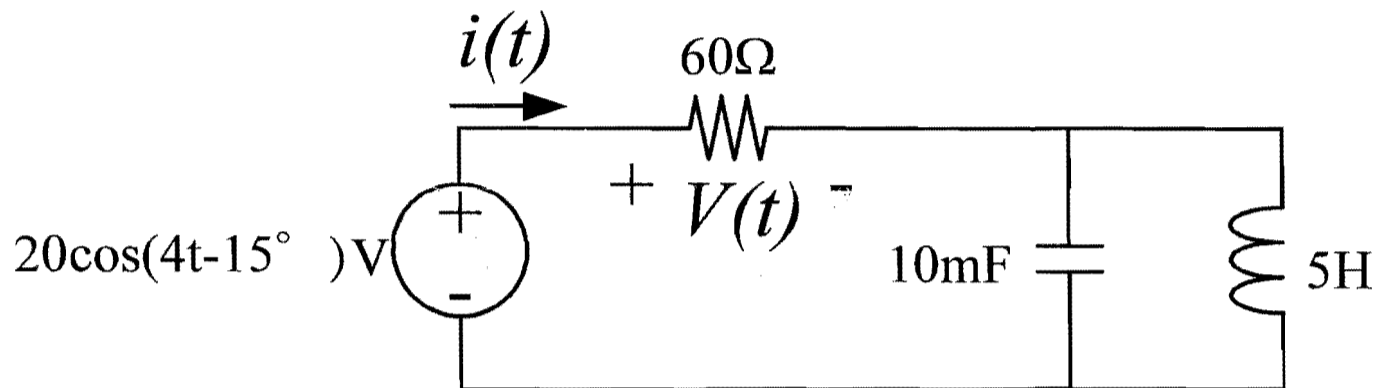
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3. Consider the following circuit

(a) Find $i(t)$ (10%)

(b) Find $v(t)$ (10%)



4. Consider the following circuit

(a) Find Thevenin equivalent circuit between a and b. (10%)

(b) Find Norton equivalent circuit between a and b. (10%)

