| r —      |  |
|----------|--|
| 0000     | 2<br>3<br>2<br>3<br>2<br>3<br>2<br>3<br>2<br>3<br>2<br>3<br>2<br>3<br>2<br>3<br>2<br>3<br>2<br>3<br>2<br>3<br>2<br>3<br>2<br>3<br>3<br>3<br>3<br>3<br>4<br>5<br>6<br>8<br>8<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9 |
| 0        | 4.5 試應用克希荷夫電壓定律、利用阻路1及回路2寸出下圖中   |
| 0        | ① 電壓 V5 之值?  |
| 0        |  |
| _        |  |
| 0        | >OV D VS= LOV  |
| O        | -4/1 P->/1   |
| 0        | 4.6有一里聯電路如下圖所示,試求: (a)等效電阻 (b)總電量I   |
| 0        | co) 電壓 V2 ld) 電源所提供的   |
| 0        | $101KT = 2T 2+2 = 6(k\Omega) + 4k - 4k$  |
| O        | (b) I = RT = 120 = >0 (MA) #  201 (B) = 2 x 2 3 R3 => kD   |
| 0        | $(C) V_2 = IR_2 = 2x_{20} = 40(U) #$   |
| _        | (d) P=IV = 120 x 20 = 2400(mW)= 2-4W)#   |
| 0        |  |
| 0        | 4.8 如下圖所不兩個並聯電阻器,試求其電壓火和電流工和   |
| 0        | Liz值   |
| 0        | RT = 4 + 12 => RT = 3 5A(1) + VII 1 V IV   |
| O        |  |
| O.       | V=IR =) 3x[=15(v)+   |
| <b>0</b> | II= R = 4 = 3.75 (A)#  |
| O        | IZ= 1-25(A)+   |
| O        | ······································   |
| 0        |  |
| 0        |  |
| 0        |  |
| Ô        | . 4  |
| V        | `a<br> -   |

## 69<sup>Aa</sup>s F<sup>1</sup>C j D<sup>d</sup>e

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|--|
| 49如下圖所示之並聯電路,試求:(WR32值(b)電壓V   |
| (c) IT (d) Iz (e) Pz   |
| (a) $\frac{1}{5} = \frac{1}{50} + \frac{1}{10} + \frac{1}{10} = \frac{1}{1$ |
| 5-5 > R3=10-D# DRY RZ RZ   |
| (b) V= I, R1 = 4×10 = 40V # [1000] 2000 1012   |
| (c) IT = I,+ I2+ I3 = 10 A #   |
| (d) Iz = R = = 2 A#  |
| (e) P2 = VI2 = 40x2 = 80W#   |
| 4.10 試求下圖中每一元件的吸收功率和供給功率,並   |
| 證明功率不變 IP-WA   |
| VT = 20-5 = 15V, RT = 3+2=CD2ND 20 \$5V  |
| $I = \frac{15}{5} = 3A$ $VA = 3x3 = 9v$ B  |
| $P = IV$ $VB = 3x2 = 6V$ $PA = 3x(-9) = -29W$ $P_{201} = 3x2 = 6V$   |
| $7A = 3 \times (-7) = -2700$ $7200 = 3 \times 20 = 60$   |
| PGV = 3x(-5) = 16W Pf 2 60 + (-PA+PB+PCV)=0  |
| 720V   |
|  |
| 411 如下圖所示之並聯 412如下圖所示之電路   |
| 電路求供給所有電阻之 試求 以, 所及工   |
| 功率户 点动性 不加 1000  |
| 1-64 230 5 60 D  |
| 7RT - 6> 7NT - 2 1,5kp 4) 3kp 345kp  |
| Q 個 V=IR=12  |
| P=IV=1>Xb VT= 012-4-6V#  |
| =72 WA KT=2+1 +4J+3+1.5  |
| 好 <sub>源</sub> 子   |
| $I = \frac{VI}{RT} = \frac{b}{I^2} = oSmAH$  |
| $I = \frac{\sqrt{1}}{RT} = \frac{6}{12} = 0.5 \text{ mA} + \frac{1}{12} =$   |