$$9 v_3 = i_2 \cdot 5 \quad (Dotos)$$

$$v_3 = (3)(5) = 15 \text{ V}$$

(5)
$$i_4 = \frac{v_1}{q} (Dotos)$$

$$i_4 = \frac{60V}{q} = 15A$$

O Dotos

$$V_1 = 60V$$
 $R_2 = 20 \Omega$
 $V_3 = 5i_2$
 $i_4 = \frac{V_1}{4}$
 $R_5 = 5\Omega$

Vq = 45 V

7 Aphrony L KV para la malla -
$$45V = -\sqrt{4}$$

TIT.

- $\sqrt{4} + 5C_5 = 0$
 $C_5 = \frac{\sqrt{4}}{5} = \frac{45V}{5} = \frac{9A}{5}$

(3)

(3)

(10)

$$P_1 = (-27)(60) = -1620 \text{ W}$$

 $P_2 = i_2^2 R_2 = (3)^2 (20) = (80 \text{ W})$
 $P_3 = (1_3)^2 R_3 = i_3 V_3 = (24)(15) = 360 \text{ W}$
 $P_4 = i_4 \cdot V_4 = (15)(45) = 675 \text{ W}$
 $P_4 = i_4 \cdot V_4 = (15)(45) = 675 \text{ W}$
 $P_5 = i_5^2 R_5 = (9)^2 (5) = 465 \text{ W}$

$$i_4 = \frac{v_1}{4}$$
 $v_2 = 60V$
 $R_5 = 5R$ $i_2 = \frac{v_2}{R_2}$

phoor LKV porm 14 $i_2 = \frac{60V}{20R} = 3A$

sollo II

 $v_2 + v_3 + v_4 = 0$

v = vz estan conecta

dos en para lelu

8 Aphor LRC en el modo z
$$\frac{i_3 = i_4 + i_5}{[i_3 = 15 + 9 = 24 A]}$$

9) Apheor LKC en el nodo 1
$$i_1 = i_2 + i_3$$

$$i_1 = 3 + 24 = 27A$$

$$i_2 = 3 + 24 = 27A$$

$$i_3 = 3 + 24 = 27A$$

$$i_4 = 3 + 24 = 27A$$

$$i_5 = 3 + 24 = 27A$$

$$i_6 = 3 + 24 = 27A$$

$$i_7 = 3 + 24 = 27A$$

$$i_8 = 3 + 24 = 27A$$

$$i_8$$