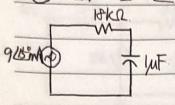
(1)-11. I=9115 mA (45 rad/s), R=18kQ. C= ImF.



Zez= R+Xc

BKD - BKD, WF - Xc = JWC = - 22.22KD

: Ze 18k - j22.22k = 28.6k (-51°-1

> Veg = ZegI = (28.6k L-51°)(9m 115°) = 251.4/-36° V

(a) 순간 전력

P(t) = i(t) V(t) = (251,400s(45t-36)) X (9x103 cos(45t+150))

2.316 cos (45t-26°) cos (45t+15°)

COSACOSB = COS(A+B)+COS(A-B)

005 (90t-21°) + 0.6294

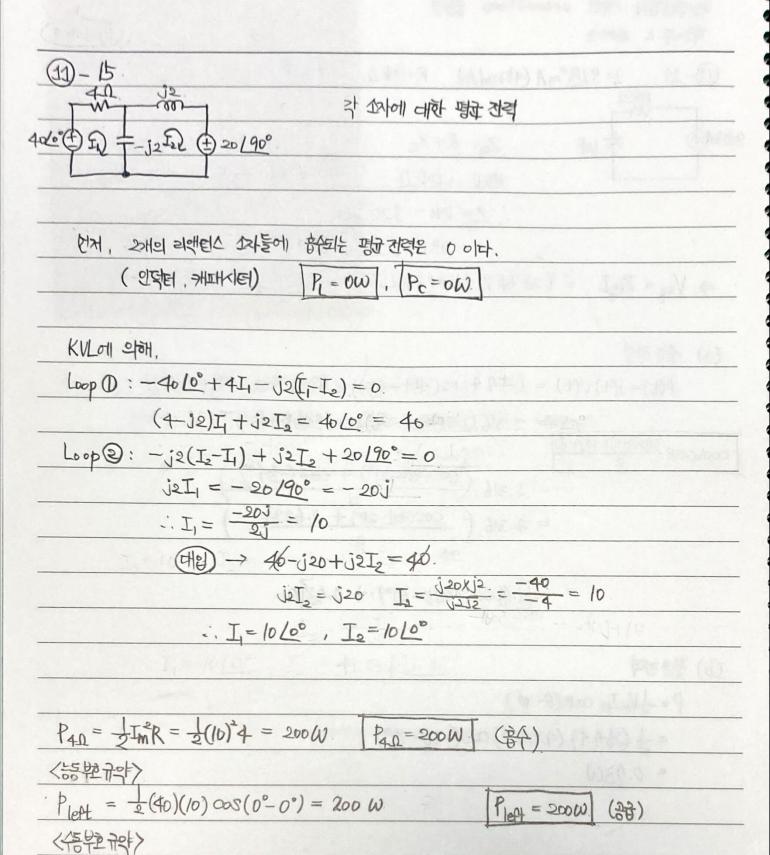
=[1.16 cos (90t-21°) + 0.13 W

(b) 题对

P = IVm Im cas (0- \$)

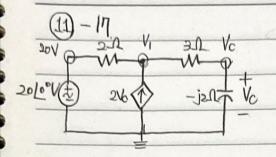
= = = (251.4) (9×10-3) 000(-36°-15°)

= 0.13W



Pright = 00.

Pright = = = (20) (40) 00500.-00) = 0



$$\frac{V_1 - V_0}{3} = \frac{V_0}{-j2}$$

$$5V_1 - (4V_c = 60)$$
 0 $-V_1 - V_c = \frac{3V_c \times (JZ)}{42}$

$$2V_1 - 2V_2 - 3iV_2 = 0$$

0, ② 想

$$(-18+(6i))$$
 $V_{c}=120$, $V_{c}=\frac{120}{(-18+(6i))}=5.122/-140.2°$
 $V_{a}=9.223/43.84°$

26.22W 37