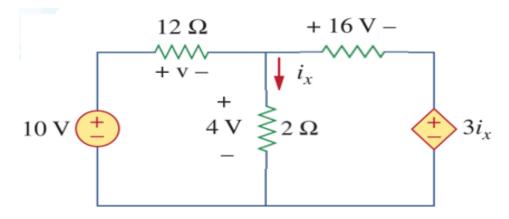
## **Homework** (2th time)

1. Calculate the absorbed power of each resistor and the supplied power of each source in the circuit.



### **Answer:**

For loop 1, -12 + v + 2 = 0, v = 10 VFor loop 2, -2 + 8 + 3ix = 0, ix = -2 A

## Time up

Answer Sheet (4/4)

1. (25 scores)Find the power absorbed by each of the elementd in Figure 1.

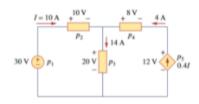


Figure 1

$$P1 = 30*(-10) = -300W$$

$$P4 = 8*(-4) = -32W$$

Time up

Answer Sheet (4/4)

# 2. (25 scores)Find V0 and the power absorbed by each of the element in Figure 2.

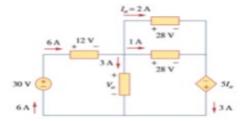


Figure 2

V0 = (30-12)V=18V P1 = 30\*(-6) = -180W P2 = 12\*6 = 72W P3 = 18\*3 = 54 W P4 = 28\*1 = 28 W

P5 = 28\*2 = 56 W P6 = 5 lo \*(-3) = 5\*2\*(-3) =-30W

#### **Answer Sheet** Time up

(4/4)

3. (25 scores) Find the power absorbed by each element in the circuit.

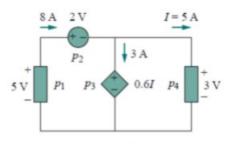


Figure 3

P1 = -40 W

P2 = 16 W

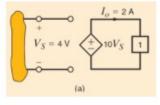
P3 = 9 W

P4 = 15 W

## Time up

Answer Sheet (4/4)

4. (25 scores)Determine the power supplied by the dependent sources.



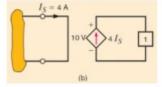


Figure 4

-80 W 160 W