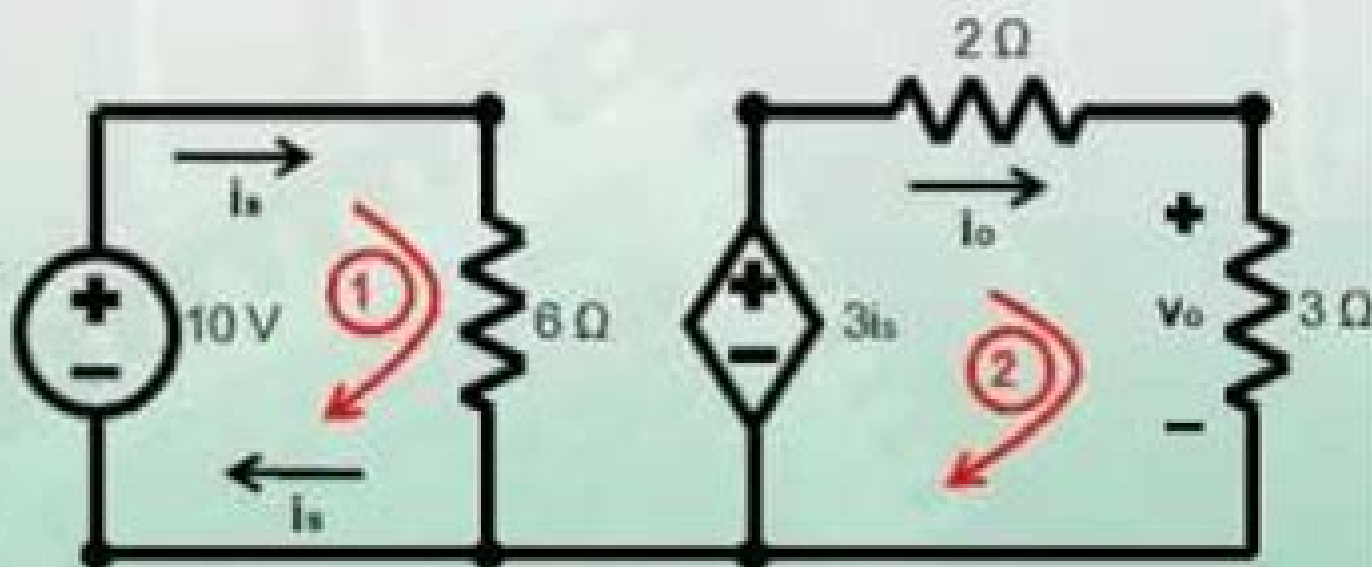


# 1.6 Circuits Containing A Dependent Source

## Example 4:

- (a) Use Kirchhoff's laws and Ohm's law to find  $v_o$ .
- (b) Show that total power developed = total power dissipated.



## Solution :

- (a) From loop 1:  $-10 + 6i_s = 0 \rightarrow i_s = 1.67 \text{ A}$

$$\text{From loop 2: } -3i_s + 2i_o + 3i_o = 0 \rightarrow i_o = 1 \text{ A} \quad , \quad v_o = 3i_o = 3 \text{ V}$$

- (b) Power dissipated in the  $6 \Omega$  resistor =  $i_s^2 \times 6 = 16.67 \text{ W}$

$$\text{Power dissipated in the } 2 \Omega \text{ resistor} = i_o^2 \times 2 = 2 \text{ W}$$

$$\text{Power dissipated in the } 3 \Omega \text{ resistor} = i_o^2 \times 3 = 3 \text{ W}$$

$$\text{Power of the independent voltage source} = -10i_s = -16.67 \text{ W} < 0 \rightarrow \text{developed}$$

$$\text{Power of the dependent voltage source} = -3i_s \times i_o = -5 \text{ W} < 0 \rightarrow \text{developed}$$

# Electrical Eng Fundamentals

**S. Bobby Rauf**



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*Fundamentals of Electrical Engineering I* Don Johnson, The textbook focuses on the creation manipulation transmission and reception of information by electronic means

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**Electrical Engineering Fundamentals** George Francis Corcoran,Edwin Bernard Kurtz,1941

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