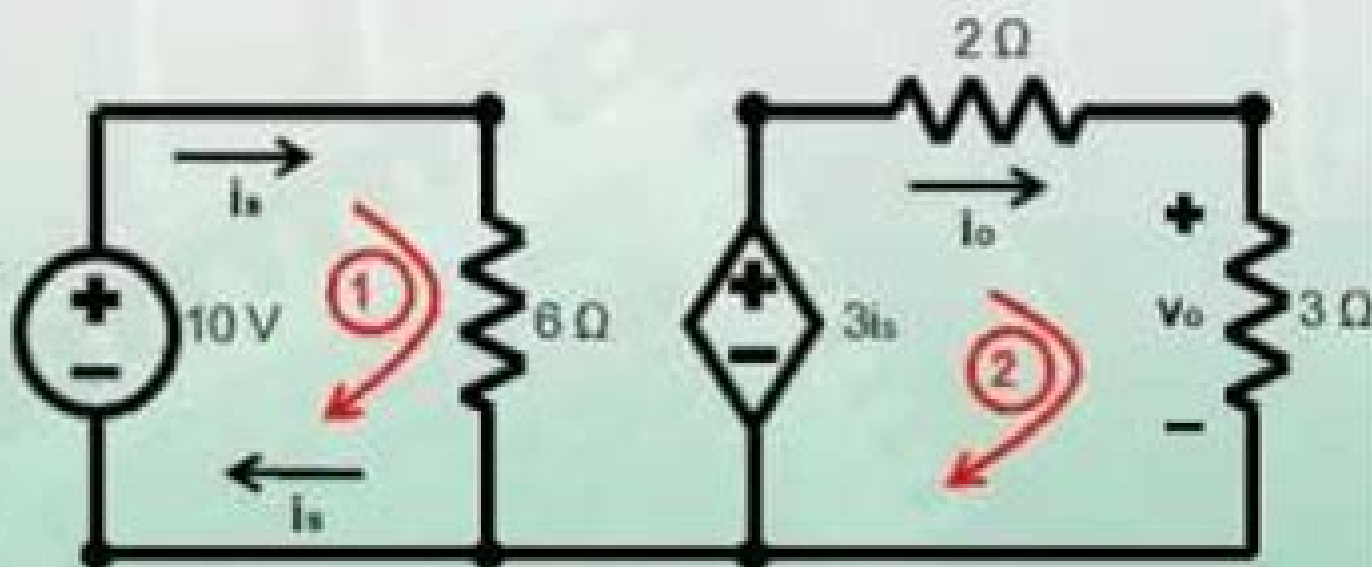


1.6 Circuits Containing A Dependent Source

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: $-10 + 6i_s = 0 \rightarrow i_s = 1.67 \text{ A}$

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

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

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

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

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

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

Electrical Engineering Circuits

J Elliott



Electrical Engineering Circuits:

Electrical Engineering Circuits Book Review: Unveiling the Power of Words

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