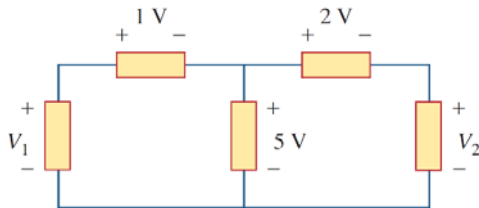


EE1002 Tutorial 4

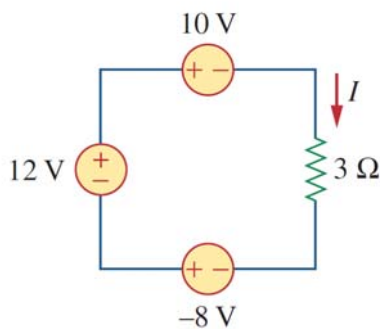
(Questions from Alexander & Sadiku Problems 2.11, 2.13, 2.17, & 2.19)

1.

- (a) In the following circuit, calculate V_1 and V_2 .



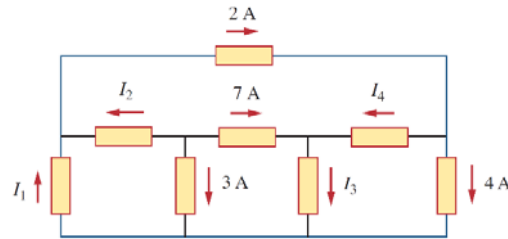
- (b) From the following circuit, find I , the power dissipated by the resistor, and the power supplied by each source.



Ans:

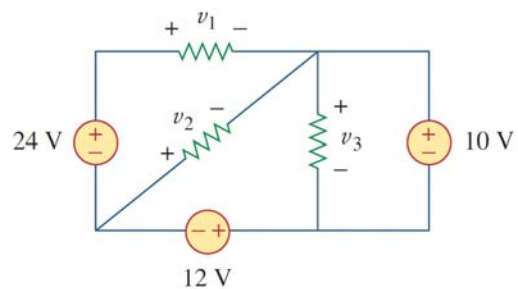
- (a) 6 V, 3 V.
(b) -2 A, 12 W, -24 W, 20 W, 16 W

2. For the following circuit, use KCL to find the branch currents I_1 to I_4



Ans.: 12 A, -10A, 5 A, -2A.

3. Obtain v_1 , v_2 , and v_3 in the following circuit.



Ans.: 2 V, -22V, 10 V.