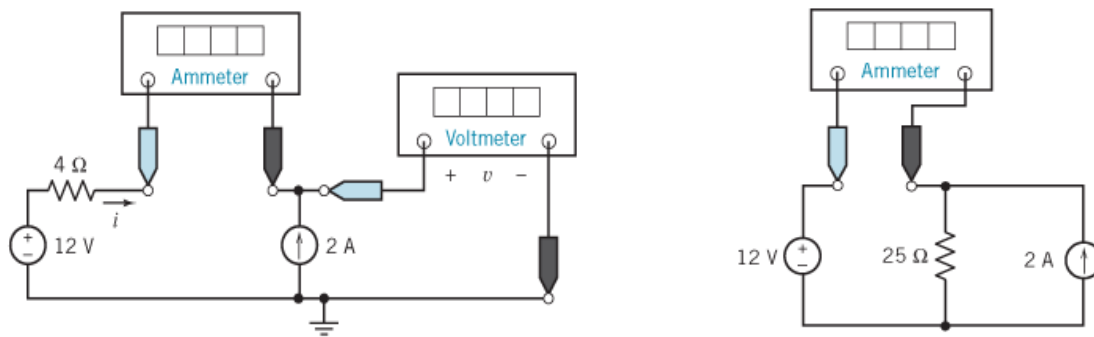


Tutorial#1

1- Find the values in the Ammeter and the Voltmeter



2-

P 2.7-2 The ammeter in the circuit shown in Figure P 2.7-2 indicates that $i_a = 2\text{ A}$, and the voltmeter indicates that $v_b = 8\text{ V}$. Determine the value of g , the gain of the VCCS.

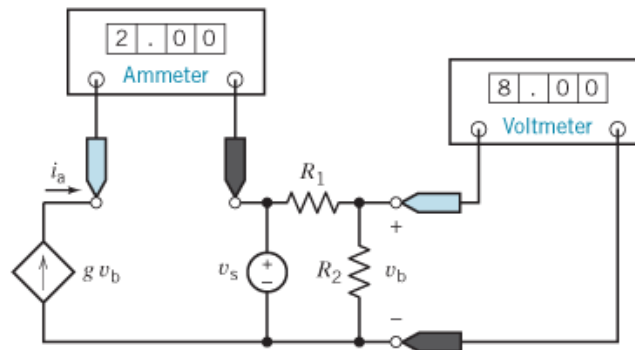


FIGURE P 2.7-2

Answer:

$$g = 0.25\text{ A/V}$$

3-

P 2.7-6 Find the power supplied by the VCCS in Figure P 2.7-6.

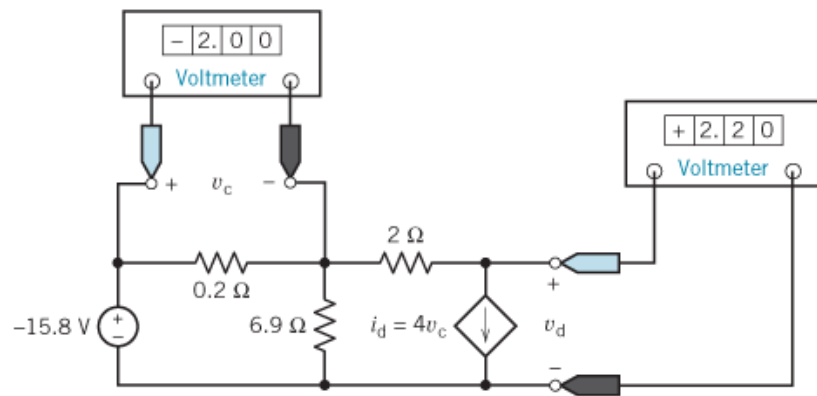


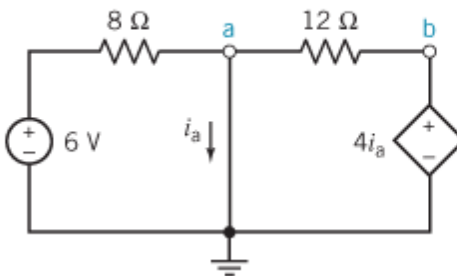
FIGURE P 2.7-6

Answer:

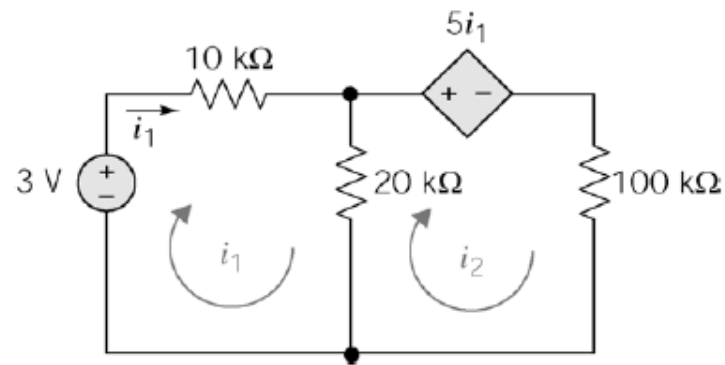
17.6 watts are supplied by the VCCS. (-17.6 watts are absorbed by the VCCS.)

4-

Find the node voltage v_b for the circuit shown in Figure E 4.4-1.



5- Find i_1 and i_2



6- Find i_x and the power delivered by the CCVS

