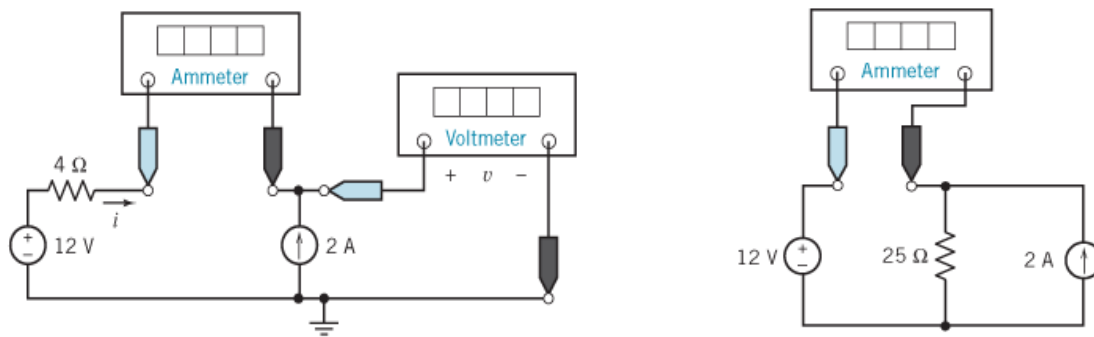


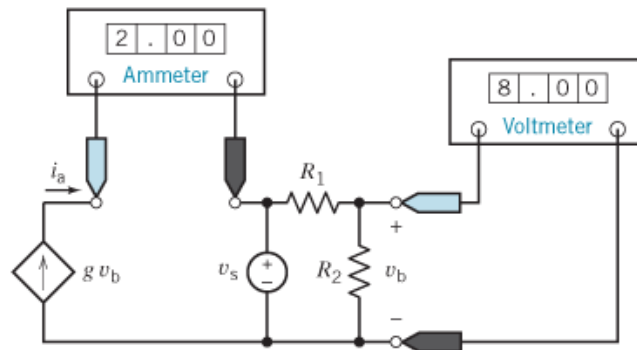
# Tutorial#1

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  $i_a = 2$  A, and the voltmeter indicates that  $v_b = 8$  V. Determine the value of  $g$ , the gain of the VCCS.



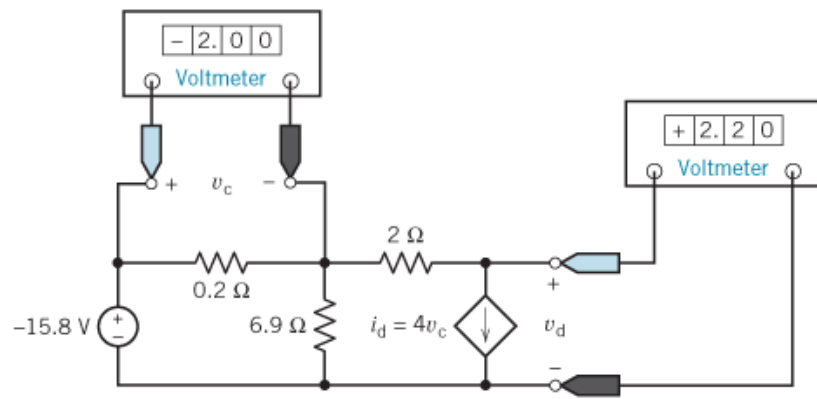
**FIGURE P 2.7-2**

**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.



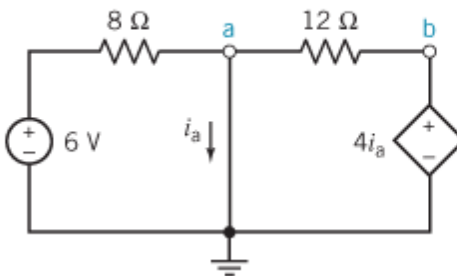
**FIGURE P 2.7-6**

**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  $i_2$

