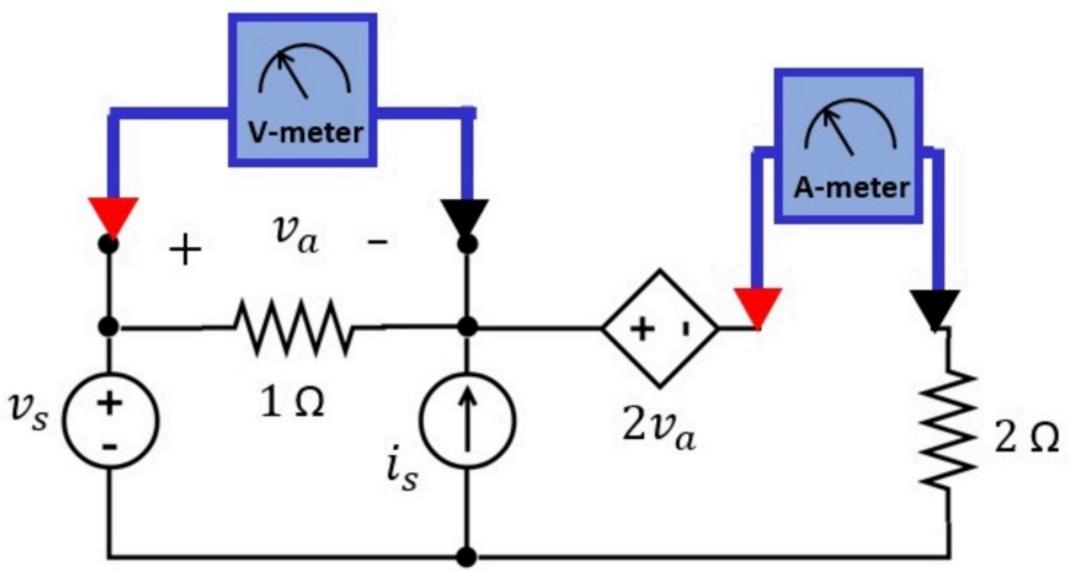
Basic concepts 009

The reading of the voltmeter is x and that of the ammeter is y.

What is the power P supplied by the VCVS? What is the value of the current source i_s ? What is the value of the voltage source v_s ?



Given Variables:	
x:3 V	
y:5A	
Calculate the following:	



P (W):

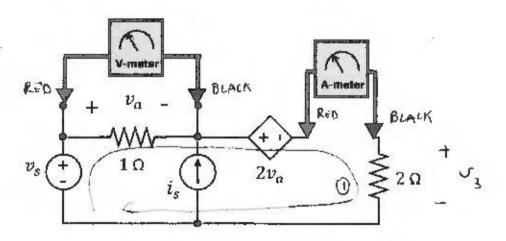
v_s (V):

The reading of the voltmeter is x and that of the ammeter is y.

What is the power P supplied by the VCV5? What is the value of the current source i_s ? What is the value of the voltage source v_s ?

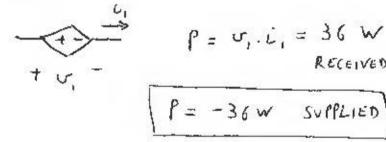
X = 6 V

Y = 3A



(a)
$$v_a = x = 6$$

 $v_1 = y = 3$
 $v_1 = 2v_4 = 12$



$$\dot{c}_1 = \frac{v_a}{1} = cA$$

$$KCL: \dot{c}_1 + v_5 = \dot{c}_1 \implies \dot{c}_5 = 3 - c = -3$$

$$\dot{c}_5 = -3A$$

@ KVL mo: