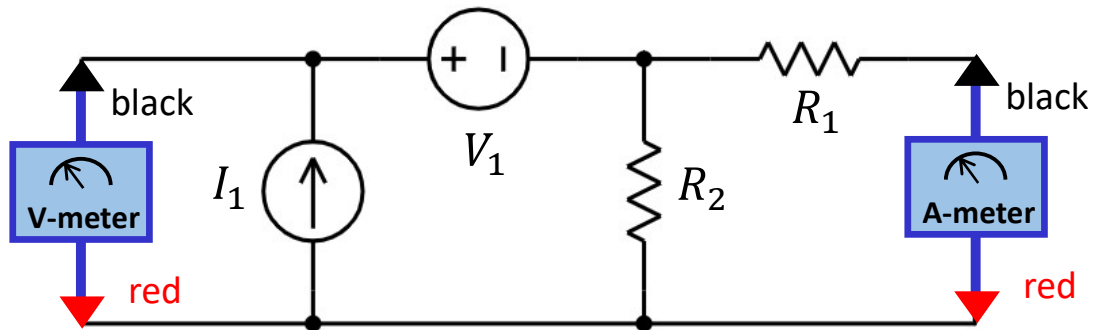


In the problem below, the ammeter is ideal.

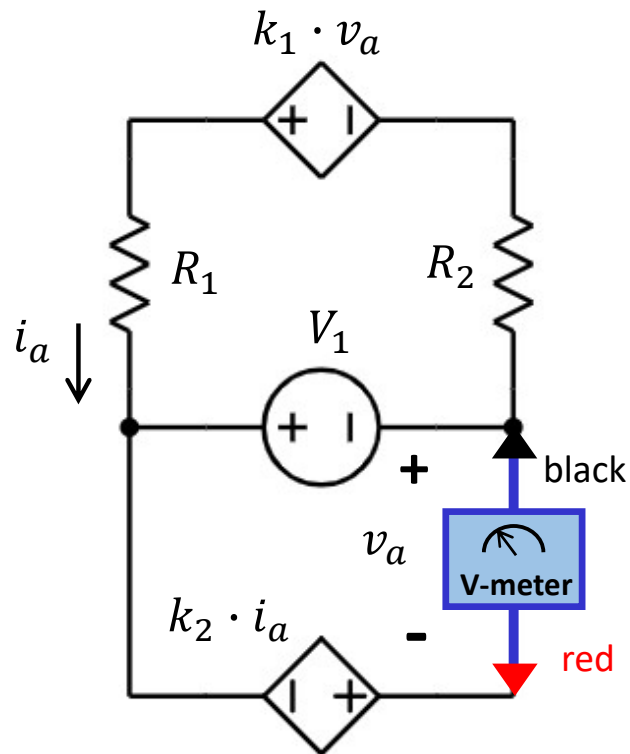
- What is the reading X of the ammeter?
- What is the reading Y of the voltmeter?



R_1 :	$2\ \Omega$
R_2 :	$2\ \Omega$
V_1 :	2 V
I_1 :	0 A

In the problem below, the voltmeter is ideal.

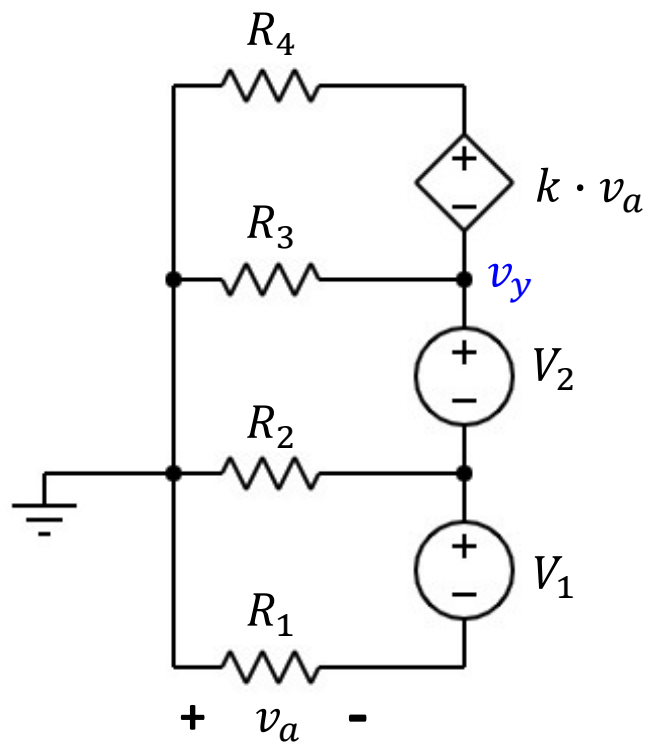
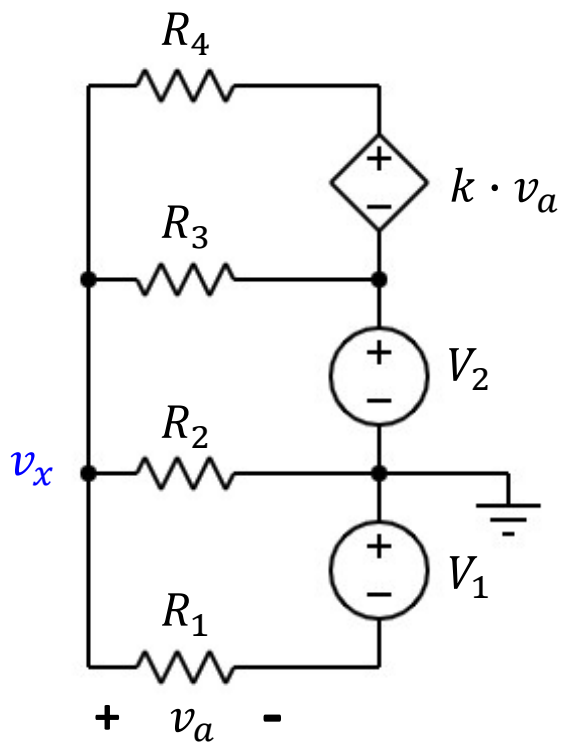
- What is the reading X of the voltmeter?
- What is the power P received by the voltage-controlled voltage source?



R1:	2 Ω
R2:	0 Ω
V1:	5 V
k1:	1 V/V
k2:	3 V/A

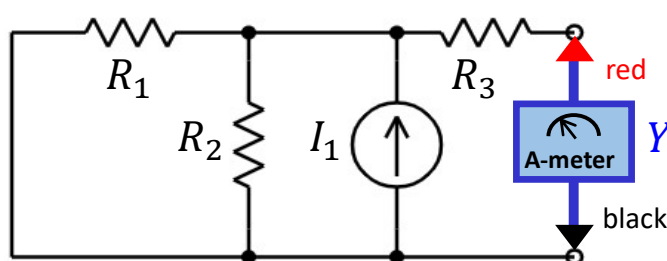
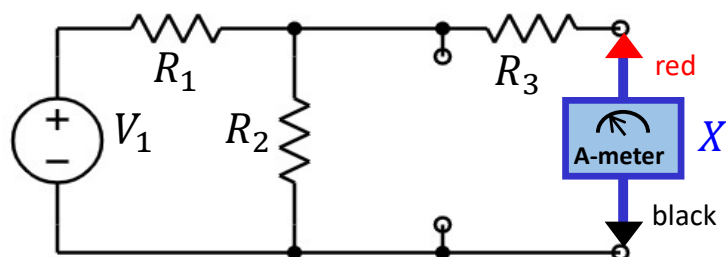
Consider the circuits below. They have the exact same components; only the position of ground is different.

- Find the node voltage v_x .
- Find the node voltage v_y .



R1:	2 Ω
R2:	1 Ω
R3:	2 Ω
R4:	2 Ω
V1:	1 V
V2:	2 V
k:	3 V/V

Consider the experiments shown below. For the circuit on the left, the ammeter measurement is X . For the one on the right, it is Y . The ammeters are ideal. You are not given the values of the independent sources (but note their directions).



R_1 :	$2\ \Omega$
R_2 :	$2\ \Omega$
R_3 :	$1\ \Omega$
R_4 :	$2\ \Omega$
R_5 :	$8\ \Omega$
V_1 :	2 V
X :	1 A
Y :	1.5 A

- For the new circuit below on the left, what is the Norton resistance R_N between A and B?
- If you connect the circuit below on the right to the one on the left (A' connected to A and B' to B), what is the power P received by resistor R_4 ?

