ECE 35, Fall 2019	Last name	
Quiz 1 — Section A First + middle name(s) PID		
	PID	

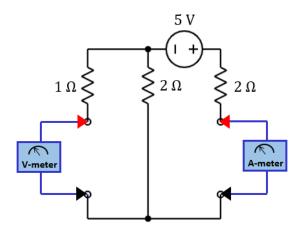
Instructions:

- Read each problem completely and thoroughly before beginning
- All calculations need to be done on these sheets
- Write your answers in the answer boxes for each question. Make sure you list units!
- Answers without supporting calculations will receive zero credit
- (1) (3 points) In the problem below, both the volt-meter and the ammeter are ideal.
 - (a) What is the reading X of the volt-meter?

X

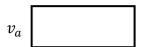
(b) What is the power P_1 received by the ammeter?

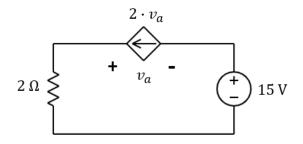
 P_1



(2) (3 points) Find v_a .

(The units of the dependent-current-source constant are A/V).





- (3) (4 points) In the problem below, P_1 is the power <u>supplied</u> by the voltage source V_1 and P_2 is the power <u>supplied</u> by the voltage source V_2 . You are given that the sum of P_1 and P_2 is 3W.
 - (a) What is the power P_3 <u>received</u> by the current source?

 P_3

(b) Find P_1 and P_2 .

 P_1, P_2

