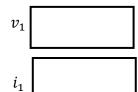
ECE 35, Fall 2019	Sequence number	
Quiz 2		
Grade	Last name	
/10	First + middle name(s)	
	PID	

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) Find the value of **node voltage** v_1 and of **mesh current** i_1 . You can use any analysis technique you want. (5 points)



	1 Ω	
1 Ω	1 V v ₁	3 V
	1 A	$(i_1) \begin{cases} 1 \Omega \end{cases}$
	-	

(2) (5 points)

- (a) In circuit (a) below, find the Thevenin equivalent resistance as seen between A and B.
- R_{Th}
- (b) I attach the load shown in (b) between A and B in the circuit of part (a). What value of \mathcal{R} will result in the maximum power being received by this load (i.e., all the resistors of the load combined)?

