

## School of Engineering Department of Electrical and Computer Engineering

332:221

**Fall 2012** 

USING A CALCULATOR WILL SLO	W YOU DOWN! Final answers must a	ppear in the appropriate box
Show your work outside the box.		
NAME:	LAB SECTION:	

**Principles of Electrical Engineering I** 

Quizlette 5

1. **Basic Stuff:** Please answer the following questions about FIGURE 1.

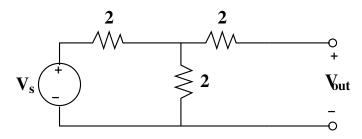


Figure 1: Circuit diagram for problem 1

(a)	(1 pt) What is the effective resistance of the circuit from the perspective of $V_{\text{out}}$ ?
(b)	(2 pt) Draw and label the Thevenin Equivalent for the circuit.
(c)	(2 pt) Draw and label the Norton Equivalent for the circuit.

## 2. Getting VERY Cute:

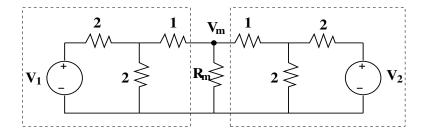
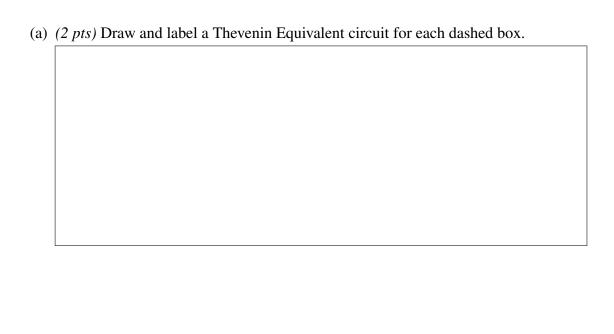
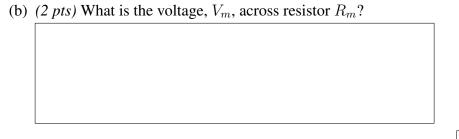


Figure 2: Circuit diagram for problem 2





(c) (1 pts) What value of  $R_m$  maximizes the power absorbed by  $R_m$ ?