

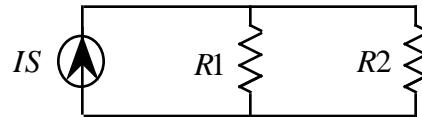
ECE 257 - LESSON 10
PRACTICE WRITING PROGRAMS

SPRING 2007

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IN CLASS

1. Given the following circuit



Go through the steps in Lesson 9 to write a *well documented* user friendly program to

- a. Input the values of I_S and R_1 from the user. Assume $R_1 = 100$ ohms
- b. Plot the power to R_2 as a function of R_2 for $R_2 = 0$ to $R_2 = 3R_1$
- c. Find the value of R_2 when the power is maximum to within a resolution of 1
- d. Find the maximum power delivered to R_2

Write the program in the four steps introduced in Lesson 9