Homework 2: Equivalent Resistance and Division

Introduction

The problems for this assignment focus on equivalent resistances, voltage division, and current division.

Problems

Connect

(1) A&S 2.26.

(2) A&S 2.29.

(3) A&S 2.31.

(4) A&S 2.33. Remember that 1 S=1 $\mho$=$\frac{1}{\Omega}$.

(5) A&S 2.35.

(6) A&S 2.54.

(7) A&S 2.56.

(8) A&S 2.75. *Carefully* read Section 2.7 first!

(9) A&S 2.78.

(10) A&S 2.82.

Sakai

(1) A&S 2.74.

(2) A&S 2.79. The goal is to determine R_{x} such that the sharpener gets exactly 240 mW of power delivered to it. In addition to what is asked in the problem, also calculate the power delivered by the 9 V source and the power absorbed by R_{x}.