ELEC 306
Problem Set 12
Due: December 5, 2014

Homework Problems.
Work the following problem in Sadiku:

H12.1 13.21

H12.2 **(a)** Show that the Friis transmission equation can be written as

$$\frac{P_r}{P_t} = \frac{A_{er} A_{et}}{\lambda^2 r^2}$$

(b) Two half-wave dipole antennas are operated at 100 MHz and separated by 1 km. If 80 W is transmitted by one, how much power is received by the other?

Real Problems.
None this week.