Phys 132 - Fund Phys 2 - Homework 19 Name: _____
Due: Monday, April 23, 2007

1. Chapter 24, Problem 2a
   A) 0.781 s B) 1.03 s C) 1.28 s D) 2.06 s E) 2.56 s

2. Chapter 24, Problem 2b
   A) 110 s B) 130 s C) 150 s D) 170 s E) 190 s

3. Chapter 24, Problem 10
   A) $5.18 \times 10^{11}$ B) $1.93 \times 10^{12}$ C) $4.17 \times 10^{12}$ D) $9.05 \times 10^{12}$ E) $1.40 \times 10^{13}$

4. Chapter 24, Problem 26
   A) 602 W/m$^2$ B) 758 W/m$^2$ C) 914 W/m$^2$ D) 1130 W/m$^2$ E) 2110 W/m$^2$

5. Chapter 24, Problem 34a
   A) 1.10 W/m$^2$ B) 0.27 W/m$^2$ C) 0.73 W/m$^2$ D) 0.55 W/m$^2$ E) 0.83 W/m$^2$

6. Chapter 24, Problem 34b
   A) $1.8 \times 10^{-2}$ W/m$^2$
   B) $1.4 \times 10^{-1}$ W/m$^2$
   C) $3.7 \times 10^{-2}$ W/m$^2$
   D) $4.9 \times 10^{-2}$ W/m$^2$
   E) $7.4 \times 10^{-2}$ W/m$^2$

7. Chapter 24, Problem 36
   A) 79 W/m$^2$ B) 140 W/m$^2$ C) 206 W/m$^2$ D) 320 W/m$^2$ E) 410 W/m$^2$

8. Chapter 24, Problem 38 (More of a thinking question than a numerical question.)
   A) 14° B) 110° C) 95° D) 28° E) 104°