CAS AS710 Fall 2011 Homework #3

Due before 5pm, Tuesday, October 11th in Professor Clemens' mailbox in room CAS514

Problems from the Bevington and Robinson book:

1. Chapter 2, Problem 2.14 in 3rd Edition:
   "In a scattering experiment to measure the polarization …"

2. Chapter 2, Problem 2.16 in 3rd Edition:
   "Show by numerical calculation that, for the Gaussian …"

3. Chapter 3, Problem 3.1 in 3rd Edition:
   "Find the uncertainty σ_x in x as a function of the …"
   *NOTE: parts (a) and (b) are "1 over (2 * (u+v))" and "1 over (2 * (u-v))". They are NOT "0.5 * (u + v)" etc.*

4. Chapter 3, Problem 3.2 in 3rd Edition:
   "If the diameter of a round table is determined …"

5. Chapter 3, Problem 3.4 in 3rd Edition:
   "The initial activity N_0 and the lifetime τ of a …"

6. Chapter 3, Problem 3.6 in 3rd Edition:
   "The change in frequency produced by the Doppler …"