Kerry Ojakian's MTH 23.5 Class
Class Assignment #8

For any Excel work, write the Excel command (for example: "=STDEV.S(A1:A5)") and write the result (for example: "1.783").

1. Pick a quantitative variable from our class data, then find the following: 1) mean, 2) sample variance, 3) sample standard deviation.

2. (a) If the sample variance is 36, find the sample standard deviation.
   (b) If the sample standard deviation is 5, what is the sample variance?

3. Compute 1) Sample Variance, 2) Sample Standard Deviation, 3) Population Variance, and 4) Population Standard Deviation of the following data:

$$-2, 4, 0, 5, -2.$$

   You must do this by hand, by filling in all parts of the handout "Worksheet for Variance and Standard Deviation" available at the webpage - copy all that work below.

4. Check your 4 values in the last problem using Excel.

5. Compute 1) Sample Variance, 2) Sample Standard Deviation, 3) Population Variance, and 4) Population Standard Deviation of the following data:

$$2, 4, 2, 5, 3, 8.$$

You must do this by hand, by filling in all parts of the handout "Worksheet for Variance and Standard Deviation" available at the webpage - copy all that work below.

6. Check your 4 values in the last problem using Excel.