

Problem Set 1

This problem set is due in lecture on **Monday, September 22nd**. No late problem sets will be accepted. **Be sure to show your work** (that is, do not use a spreadsheet or statistical program to generate your answers), and to write your name, ID number, as well as the name of your Teaching Assistant, on your problem set.

Answer all these problems. They are from the textbook, with the exception of Problem X.1 which is written out.

- 1.26
- 2.6
- 2.16
- 2.24

- Problem X.1
Let:
 $x_1 = 8, x_2 = 9, x_3 = 15, x_4 = 0, x_5 = 3, x_6 = -2$

and Let:
 $y_1 = 5, y_2 = 1, y_3 = -1, y_4 = 8, y_5 = 8$

Evaluate:

$$(a) \frac{\sum_{i=1}^5 x_i}{\sum_{i=1}^5 y_i} \quad (b) \sum_{i=1}^5 \frac{x_i}{y_i} \quad (c) \frac{\sum_{i=1}^6 |x_i|}{|\sum_{i=1}^5 y_i|}$$

where the $|\cdot|$ operator indicates the absolute value operation.

- 2.30
- 2.40
- 2.50
- 2.54
- 2.68
- 2.74
- 2.76