## Homework Solutions Chapter 5 – Page 333

## Exercise 11

- (a) Use the TI-83. Enter the data into a list and use 1-Var-Stats to get s. We get
  - (i) s = 9.016.
  - (ii) s = 0.
  - (iii) s = 2.669.
- (b) The standard deviation for data set (i) is so large because of the outlier 27. It has a very large deviation which was averaged in with the rest, increasing the size of the standard deviation.
- (c) The ranges are
  - (i) Range = 27 1 = 26.
  - (ii) Range = 7 7 = 0.
  - (iii) Range = 11 3 = 8.

The range is misleading for data set (i). Except for the 27, there data are tightly clustered.