Access to Science, Engineering and Agriculture: Mathematics 1 MATH00030 Chapter 8 Exercises

- 1. For each of the following lists of numbers, find the
 - (i) Mean
 - (ii) Median
 - (iii) Mode
 - (iv) Variance
 - (v) Standard deviation
 - (vi) Interquartile range
 - (a) -3, -9, 6, 2, 1, 2, 6.
 - (b) -3, -4, -9, -2, -5, -6, -6, -7.
 - (c) 3, 3, 4, 2, 1, 5, 2, 10, 0.
 - (d) -7, -2, -4, -6, 0, 4, 2, -5, -3, 7.
- 2. Find the following lines of best fit.
 - (a) Find the line of best fit using the least squares method with the points (-2, -1), (0, 0), (2, 1), (4, 3), (6, 3), (8, 4), (10, 4), (12, 5) and (14, 5). Plot the line of best fit and the points on a graph.
 - (b) Find the line of best fit using the least squares method with the points (-3, 3), (-2, 4), (0, 3), (1, 2), (2, 3), (5, 3), (6, 1), (7, 2), (9, 1), (12, 1) and (13, 0). Plot the line of best fit and the points on a graph.