# 4MM013 Resit Portfolio Solutions

1. Evaluate the following expressions for the pair of functions

and

* 1. f(7)
  2. g(-2)
  3. f(x) + g(x)

**15 Marks**

1. Solve the following equations
   1. 5x + 21 = 11

**7 Marks**

1. Solve the following set of simultaneous equations, using the method stated
   1. Gaussian Elimination
   2. Inverse Matrices
   3. Cramer’s Rule

Which of the three methods do you think is most appropriate for solving this question. Justify your answer.

**Note**: You must show your working in this question, for each of the three methods required. If you only give the final answer you will receive only one mark

**33 Marks**

1. Evaluate the following expressions (where possible) for these matrices
   1. A + B
   2. AC
   3. CB
   4. |C|

**15 Marks**

**Total 70 Marks**