

2003 Paper 1 Question 2

Discrete Mathematics

- (a) Show that the highest common factor of 798 and 567 is 21. [2 marks]
- (b) Find all pairs of integers (x, y) with $798x + 567y = 63$. [4 marks]
- (c) Find all integer solutions to $567x = 42 \pmod{798}$. [4 marks]