

Question 5

(25 marks)

- (a) The *Sieve of Sundaram* is an infinite table of arithmetic sequences.
The terms in the first 4 rows and the first 4 columns of the table are shown below.

4	7	10	13		
7	12	17	22		
10	17	24	31		
13	22	31	40		

- (i) Find the **difference** between the **sums** of the first 45 terms in the first two rows.

- (ii) Find the number which is in the 60th row and 70th column of the table.

