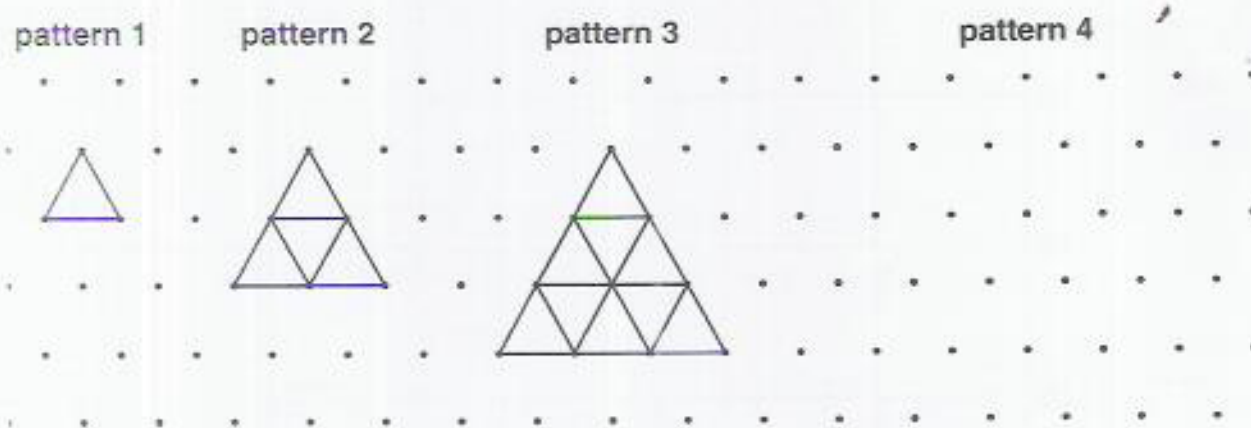


15. Here are the first three patterns in a sequence with space to draw the fourth pattern.



In this question  and  are small triangles.

(i) Draw pattern 4 (1)

(ii) Complete the table below for patterns 1 to 4

pattern number	1	2	3	4
number of small triangles	1	4		

(1)

(iii) How many small triangles are there in pattern 5?

Answer: (1)

(iv) Which pattern will have 100 small triangles?

Answer: pattern..... (1)

(v) Which pattern gives the sum of the odd numbers from 1 to 99 inclusive?

Answer: pattern..... (2)

(Total marks: 100)