

# Mathematics

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(Chapter – 6) (Lines and Angles)(Exemplar Problems)

(Class – IX)

## Exercise 6.2

### Question 5:

How many triangles can be drawn having its angles as  $53^\circ$ ,  $64^\circ$  and  $63^\circ$ ? Give reason for your answer.

### Answer 5:

Infinitely triangles

The sum of given angles =  $53^\circ + 64^\circ + 63^\circ = 180^\circ$

Since, the sum of all interior angles of triangle is  $180^\circ$ . So, infinitely many triangles can be drawn.

