

# Mathematics

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

(Class – IX)

## Exercise 6.2

### Question 4:

How many triangles can be drawn having its angles as  $45^\circ$ ,  $64^\circ$  and  $72^\circ$ ? Give reason for your answer.

### Answer 4:

None

The sum of given angles =  $45^\circ + 64^\circ + 72^\circ = 181^\circ \neq 180^\circ$ .

Hence, we see that sum of all three angles is not equal to  $180^\circ$ . So, no triangle can be drawn with these given angles.

