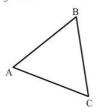


Triangles Ex 12.1 Q1

Answer:

Let us consider three non-collinear points A, B and C and join them.

After joining these points, we get a 'Triangle', as it consists of three sides. The name of the triangle we get is \triangle ABC.



- (i) The side opposite ∠B is AC.
- (ii) The angle opposite side AB is ∠C.
- (iii) The vertex opposite side BC is A.
- (iv) The side opposite vertex B is AC.

Triangles Ex 12.1 Q2

Answer:

Let us consider three collinear points A, B and C and join AB, BC and CA.

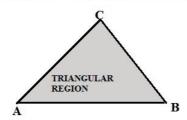


The figure we get is not a triangle because it is a straight line consisting of only one side. It is also not a closed figure, whereas a triangle is defined as a closed figure consisting of three sides.

Triangles Ex 12.1 Q3

Answer:

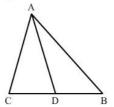
A triangle is defined as a closed polygon consisting of three sides, whereas a triangular region is the region that lies inside the triangle. In the adjoining figure, the shaded region shows the triangular region.



Triangles Ex 12.1 Q4

Answer

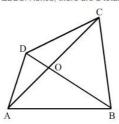
The figure consists of triangles ΔADC , ΔADB and ΔABC . Therefore, three triangles are present in the figure.



Triangles Ex 12.1 Q5

Answer:

The following figure consists of triangles, namely Δ ODC, Δ ODA, Δ OBC, Δ OAB, Δ ADB, Δ ACB, Δ DAC and Δ DBC. Hence, there are a total of eight triangles.

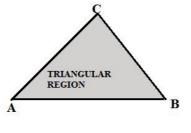


Triangles Ex 12.1 Q6

Answer:

A triangle is defined as a closed polygon consisting of three sides, whereas a triangular region is the region that lies inside the three sides of the triangle.

In the adjoining figure, the shaded region shows the triangular region.



********* END *******