



Properties of Triangles Ex 15.1 Q10

**Answer :**

- (i) three
- (ii) three
- (iii) three
- (iv) six (three sides + three angles)
- (v) a scalene triangle
- (vi) an isosceles triangle
- (vii) an equilateral triangle
- (viii) a right triangle
- (ix) an acute triangle
- (x) an obtuse triangle

Properties of Triangles Ex 15.1 Q11

**Answer :**

- (i) True.
- (ii) False. A triangle has three vertices.
- (iii) False. Any three non-parallel line segments can make up a triangle.
- (iv) False. The interior of a triangle is the region enclosed by the triangle and the vertices are not enclosed by the triangle.
- (v) True. The triangular region includes the interior region and the triangle itself.
- (vi) False. The vertices of a triangle are three non-collinear points.
- (vii) True. In an equilateral triangle, any two sides are equal.
- (viii) False. A right triangle can also be an isosceles triangle.
- (ix) False. Each acute triangle is not an equilateral triangle, but each equilateral triangle is an acute triangle.
- (x) False. An isosceles triangle can be an obtuse triangle, a right triangle or an acute triangle.

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