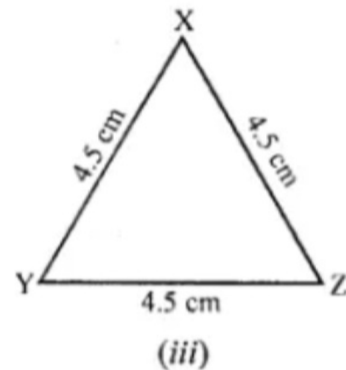
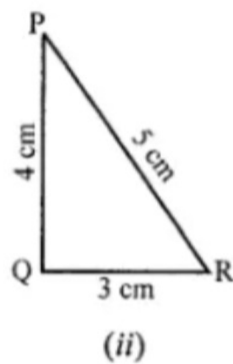
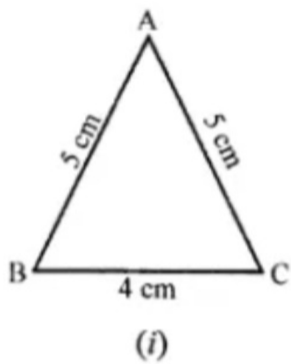


Question 1.

Name the following triangles with regards to sides :

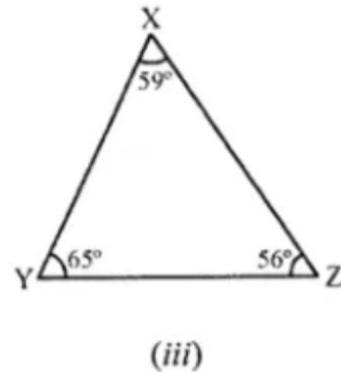
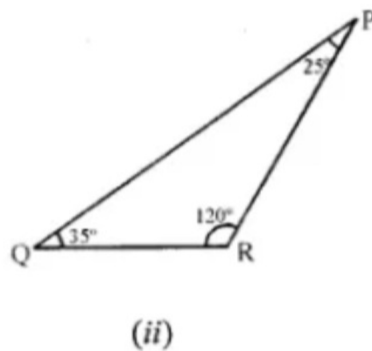
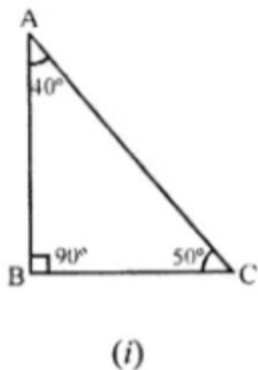


Solution:

- (i) Isosceles triangle
- (ii) Scalene triangle.
- (iii) Equilateral triangle.

Question 2.

Name the following triangles with regards to angles :

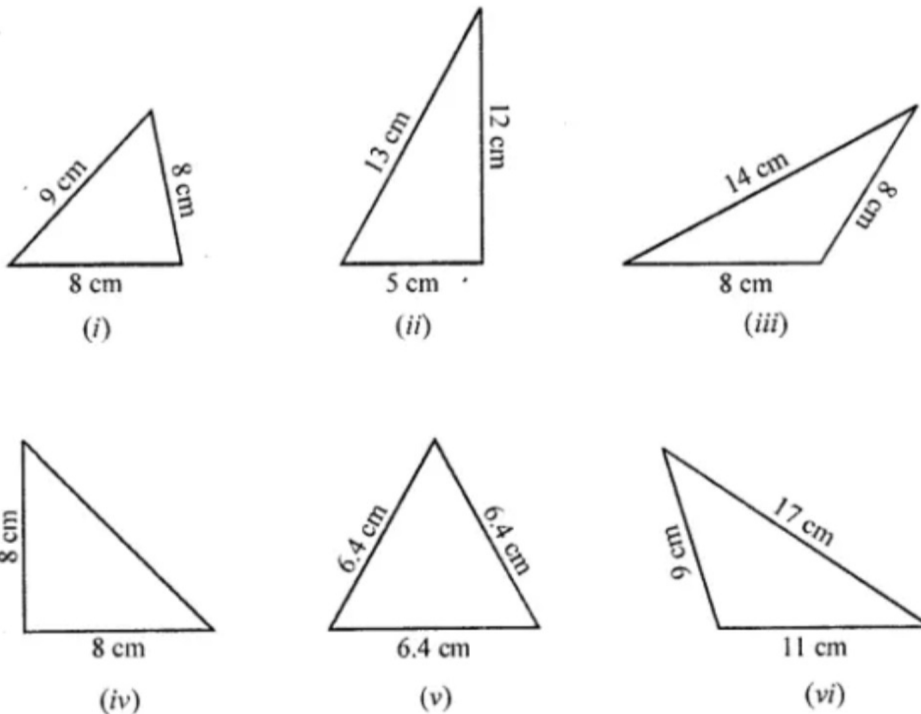


Solution:

- (i) Right angled triangle as $\angle B = 90^\circ$.
- (ii) Obtuse angled triangle as $\angle R$ is obtuse and greater than 90° .
- (iii) Acute angled triangle as all the angles are less than 90° .

Question 3.

Name each of the following triangles in two different ways (you may judge the nature of the angle by observation):



Solution:

- (i) Acute angled and isosceles triangle
- (ii) right angled and scalene triangle
- (iii) Obtuse angled and isosceles triangle
- (iv) Right angled and isosceles triangle
- (v) Equilateral and acute angled triangle
- (vi) Obtuse angled and scalene triangle

Question 4.

Match the following:

Measures of triangles

- (i) 3 sides of equal length
- (ii) 2 sides of equal length
- (iii) all sides of different length
- (iv) 3 acute angles
- (v) 1 right angle
- (vi) 1 obtuse angle
- (vii) 1 right angle with two sides of equal length

Types of triangles

- (a) Scalene
- (b) Isosceles right angled
- (c) Obtuse angled
- (d) Right angled
- (e) Equilateral
- (f) Acute angled
- (g) Isosceles

Solution:

Measures of triangles

- (i) 3 sides of equal length
- (ii) 2 sides of equal length
- (iii) all sides of different length
- (iv) 3 acute angles
- (v) 1 right angle
- (vi) 1 obtuse angle
- (vii) 1 right angle with two sides of equal length

Types of triangles

- (e) Equilateral
- (g) Isosceles
- (a) Scalene
- (f) Acute angled
- (d) Right angled
- (c) Obtuse angled
- (b) Isosceles right angled

Question 5.

State which of the following statement are true and which are false :

- (i) A triangle can have two right angles.
- (ii) A triangle cannot have more than one obtuse angle.
- (iii) A triangle has atleast two acute angles.
- (iv) If all the three sides of a triangle are equal, it is called a scalene triangle.
- (v) A triangle has four sides.
- (vi) An isosceles triangle is an equilateral triangle also.
- (vii) An equilateral triangle is an isosceles triangle also.
- (viii) An scalene triangle has all its angles equal.

Solution:

- (i) False
- (ii) True
- (iii) True
- (iv) False
- (v) False
- (vi) False
- (vii) True
- (viii) False