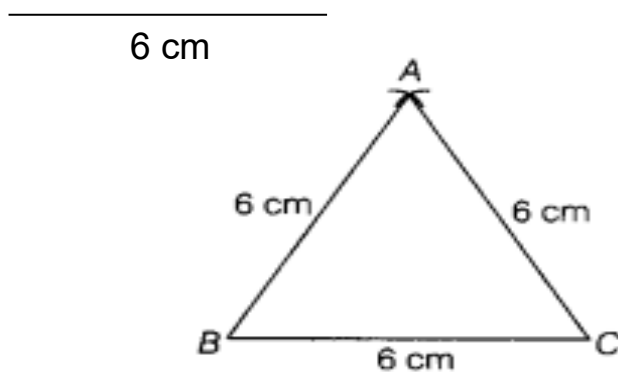


1) Draw an equilateral triangle with sides of 6 cm.

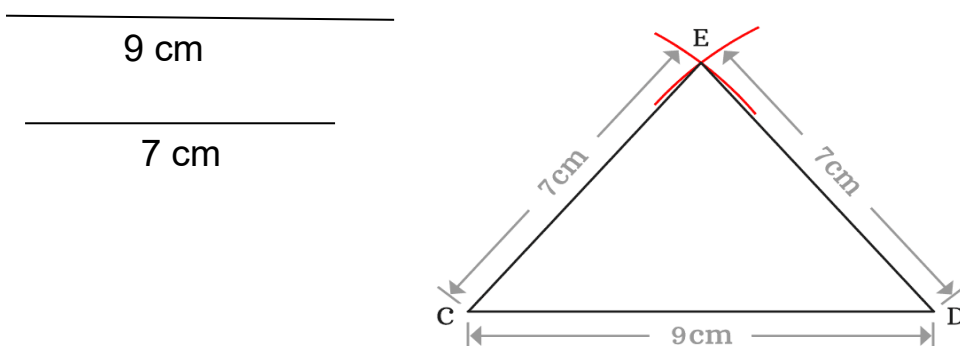
Ans:



Thus, $\triangle ABC$ is an equilateral triangle.

2) Draw an isosceles triangle with sides of 9 cm, 7 cm and 7 cm.

Ans:

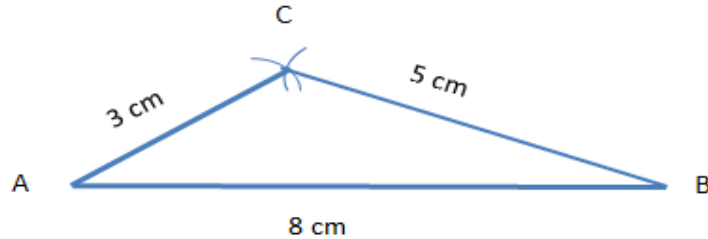
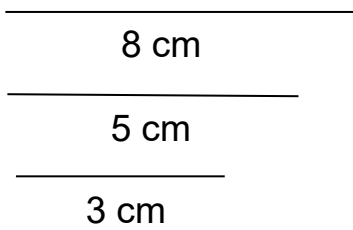


Here, $\triangle ECD$ is an isosceles triangle. Where, $EC = ED = 7$ cm.

And $CD = 9$ cm

3) Draw a scalene triangle with sides of 3 cm, 5 cm and 8 cm.

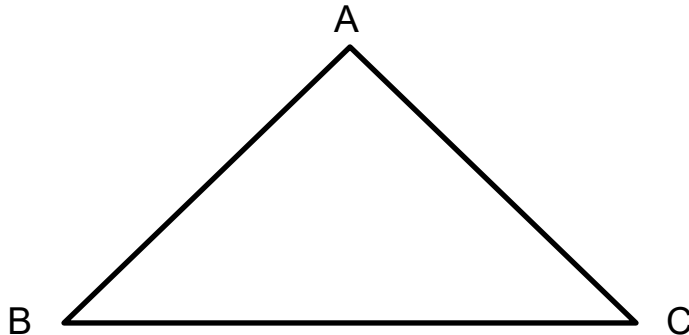
Ans:



Here, ABC is a scalene triangle. Where, $AB = 8$ cm, $AC = 3$ cm and $BC = 5$ cm.

4) Draw an acute angled triangle with one of the angles is 60° .

Ans:



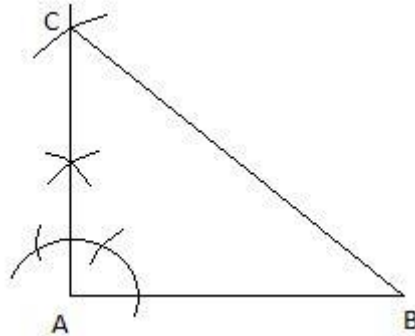
Here, ABC is an acute angled triangle. Here $\angle B = 60^\circ$.

5) What is obtuse angled triangle?

Ans: Obtuse angled triangle have one obtuse angle. One of the angles is greater than 90° .

6) Draw a triangle with one of the angles is 90° .

Ans:

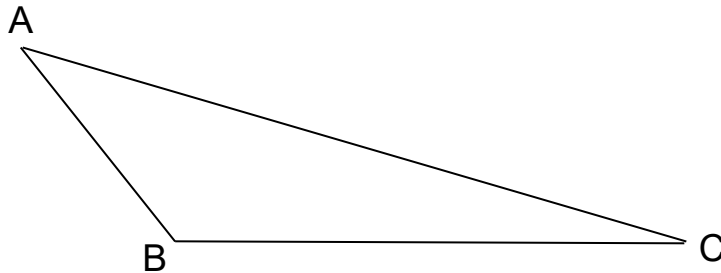


Here, ABC is a right angled triangle. $\angle A = 90^\circ$.

7) Draw an obtuse angled triangle with one of the angles 120° .

Ans:

Ans:



Here, ABC is an obtuse angled triangle. $\angle B = 120^\circ$.

8) How many types of triangles are there based on sides? What are they?

Ans: There are three types of triangle based on the sides. They are:

- 1) Equilateral triangle
- 2) Isosceles triangle
- 3) Scalene triangle

9) What is triangle?

Ans: A triangle is a closed figure with three sides.

10) Write three characteristics of triangle?

Ans: **Characteristics:**

1) It has three sides.

2) It has three corners / vertices.

3) It has three angles.

11) What is the sum of three angles of any triangle?

Ans: 180° .

12) Which triangle has three 60° angles?

Ans: Equilateral triangle.

13) Which triangle has two equal sides?

Ans: Isosceles triangle.

14) A triangle that has no equal sides and no equal angles is known as what?

Ans: Scalene triangle.

15) A triangle that has 2 equal sides and 2 equal angles is known as what?

Ans: Isosceles triangle.

16) A triangle that has 3 equal sides and 3 equal angles is known as what?

Ans: Equilateral triangle.

17) How many vertices does a triangle have?

Ans: Three.

18) How many sides are there in a triangle?

Ans: Three.

19) How many angles are there in a triangle?

Ans: Three.

20) If all the angles of a triangle are acute, the triangle is called _____

Ans: Acute angled triangle.

21) If one angle of a triangle measures 90° , the triangle is called _____

Ans: Right angled triangle.

22) If one angle of a triangle is obtuse, the triangle is called _____

Ans: Obtuse angled triangle.

Prepared by –

Sadia Khanam