

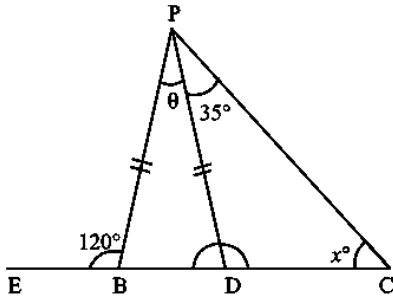
D CUBE AURA

- (f). Through each vertex, an _____ can be drawn.
- (g). A triangle in which all the three sides are of equal lengths is called an _____.
- (h). In an equilateral triangle all sides have _____ length.
- (i). An _____ of a triangle is equal to the sum of its interior opposite angles.
- (j). The sum of the measures of the three angles of a triangle is _____.
- (k). In an equilateral triangle each angle has measure _____.
- (l). A triangle in which two sides are of equal lengths is called an _____.
- (m). A _____ connects a vertex of a triangle to the mid-point of the opposite side.
- (n). Exterior angles can be formed for a triangle in _____ ways.
- (o). In an isosceles triangle _____ sides have same length.
- (p). The sum of the lengths of any two sides of a triangle is greater than the _____.
- (q). A median wholly lie in the _____ of the triangle.
- (r). The sum of an exterior angle of a triangle and its adjacent interior angle is _____.
- (s). In an isosceles triangle base angle opposite to the equal sides are _____.
- (t). The side opposite to the right angle is called the _____ of the right-angled triangle.

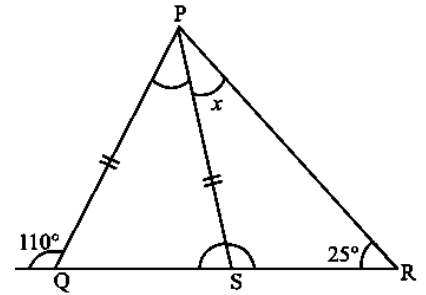
- Q01.** An exterior angle of a triangle is of measure 70° and one of its interior opposite angles is of measure 25° . Find the measure of the other interior opposite angle.
- Q02.** Is there a triangle whose sides have lengths 10.2 cm, 5.8 cm and 4.5 cm?
- Q03.** The two interior opposite angles of an exterior angle of a triangle are 60° and 80° . Find the measure of the exterior angle.
- Q04.** The lengths of two sides of a triangle are 6 cm and 8 cm. Between which two numbers can length of the third side fall?
- Q05.** Two angles of a triangle are 30° and 80° . Find the third angle.
- Q06.** Is it possible to have a triangle with the sides 3 cm, 6 cm and 7 cm?
- Q07.** One of the angles of a triangle is 80° and the other two angles are equal. Find the measure of each of the equal angles.
- Q08.** The lengths of two sides of a triangle are 17 cm and 26 cm. Between what two measures should the length of the third side fall?
- Q09.** The lengths of two sides of a triangle are 9 cm and 15 cm. Between what two measures should the length of the third side fall?
- Q10.** The two interior opposite angles of an exterior angle of a triangle are 37° and 54° . Find the measure of the exterior angle.
- Q11.** An exterior angle of a triangle is of measure 63° and one of its interior opposite angles is of measure 39° . Find the measure of the other interior opposite angle.
- Q12.** The three angles of a triangle are in the ratio 3:1:2. Find all the angles of the triangle.
- Q13.** Two trees 7 m and 4 m high stand upright on a ground. If their bases (roots) are 4 m apart, then the distance between their tops is
- Q14.** The three angles of a triangle are in the ratio 1:5:3. Find all the angles of the triangle.
- Q15.** The height of two building is 34m and 29m respectively. If the distance between the two building is 12m, find the distance between their tops.
- Q16.** In the right-angled ΔPQR , $\angle P = 90^\circ$. If $PQ = 24$ cm and $PR = 10$ cm, find the length of seg QR.
- Q17.** In the right-angled ΔLMN , $\angle M = 90^\circ$. If $LM = 12$ cm and $LN = 20$ cm, find the length of seg MN.
- Q18.** The top of a ladder of length 15 m reaches a window 9 m above the ground. What is the distance between the base of the wall and that of the ladder?

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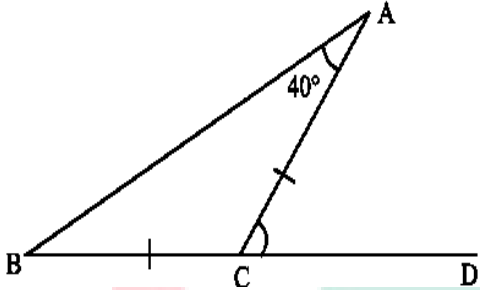
Q19. If $PB = PD$ then, the value of x .



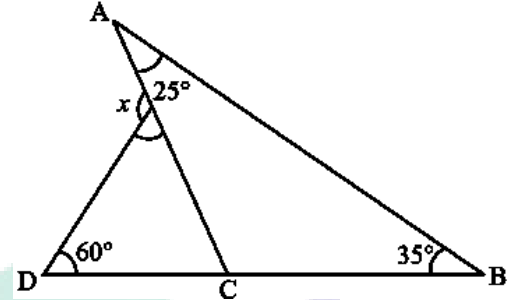
Q20. If $PQ = PS$ then, the value of x is



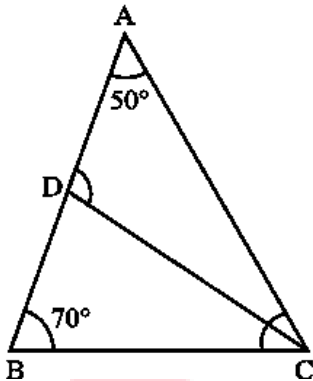
Q21. If $BC = CA$ and $\angle A = 40$. Then, $\angle ACD$ is equal to



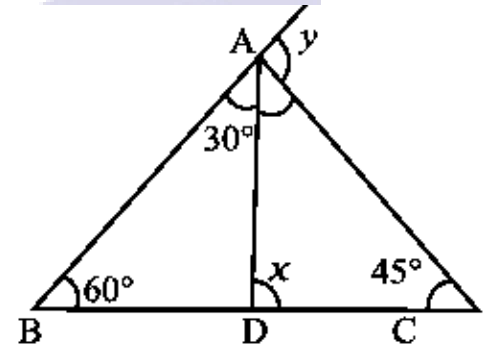
Q22. Find the value of x ?



Q23. In $\triangle ABC$, $\angle A = 50^\circ$, $\angle B = 70^\circ$ and bisector of $\angle C$ meets AB in D . Measure of $\angle ADC$ is.



Q24. Find the value of x and y ?



Q25. If $PQ = PR$, $RS = RQ$ and $ST \parallel QR$. If the exterior angle RPU is 140° , then the measure of angle TSR is

