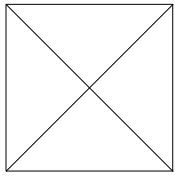


<1M>

1.If in a $\triangle ABC$, $AB = 4$ cm, $CA = 7$ cm and $BC = 5$ cm. Can that triangle be valid?

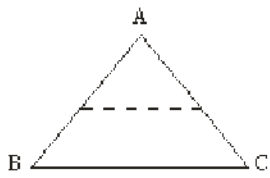
- (A) Yes (B) No (C) Might be (D) Can't say

2.In the given figure the value of x and y are respectively.



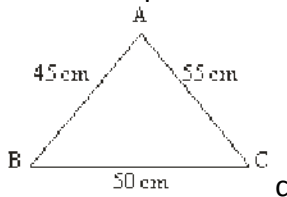
- (A) $75^\circ, 45^\circ$ (B) $80^\circ, 50^\circ$ (C) $85^\circ, 50^\circ$ (D) $95^\circ, 45^\circ$

3.Find $\angle ACB$ in the given Isosceles triangle where $AB=AC$, if $\angle ABC = 50^\circ$.



- (A) 80° (B) 60° (C) 70° (D) 50°

4.Find the perimeter of the given triangle.



- (A) 150 cm (B) 165 cm (C) 78 cm (D) 165 cm

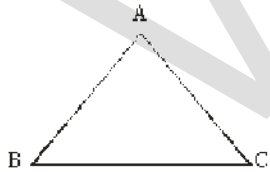
5.Can a triangle have two right angles?

- (A) Yes (B) No (C) Might be (D) Can't say

6.What are the properties of a triangle?

- (A) A triangle is a simple closed curve made of 3 lines. (B) A triangle has 3 vertices.
(C) A triangle has 3 angles. (D) All of them.

7.In triangle ABC, name the vertex opposite of the side BC.



- (A) B (B) C (C) A (D) None of them

8.According to Pythagoras, if one side is 4cm and the other is 3cm, then the length of the hypotenuse is _____.

- (A) 4 cm (B) 5 cm (C) 6 cm (D) 7 cm

9.Can you have a triangle with all the angles less than 60° ?

- (A) No (B) Yes (C) Might be (D) Can't say

10.Can we form an exterior angle on every vertex of a triangle?

- (A) No. (B) Yes. (C) Might be. (D) None of them.

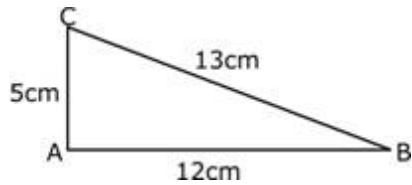
11.Define hypotenuse?

- (A) The side opposite to an acute angle. (B) The side opposite to a right angle.
 (C) Longest side of a right angle triangle (D) 2 and 3 both

12. Sum of three angles of a triangle is equal to _____

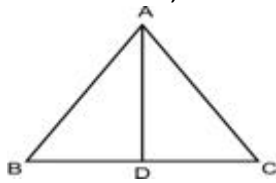
13. What will be the measurement of each angle of an equilateral triangle?

14. Find the perimeter of the given triangle.



- (A) 25 cm (B) 30 cm (C) 25 m (D) 15 cm

15. In $\triangle ABC$, D is the mid-point of BC. Then AD will be

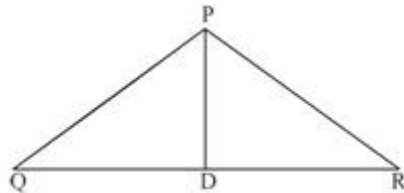


- (A) Altitude (B) Median (C) Side of triangle ABC (D) None of them

16. The sum of the lengths of any two sides of a triangle is _____ than the 3rd side of triangle.

- (A) less (B) equal (C) more (D) None of them

17. In isosceles $\triangle PQR$, D is the mid point of QR and PD is a _____.



- (A) perpendicular (B) bisector (C) median (D) 1 and 3 both

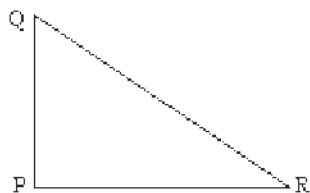
18. What do you mean by perimeter in triangle?

- (A) The sum of all the 3 angles of a triangle. (B) The sum of all the 3 sides of a triangle.
 (C) The sum of all the sides and angles of a triangle. (D) None of them

19. Pythagoras property holds only if the triangle is _____.

- (A) Right angled triangle (B) Obtuse angled triangle
 (C) Acute angled triangle (D) None of them

20. Angles Q and R of $\triangle PQR$ are 25° and 65° respectively. Which of the statements is true?



- (A) Square of PQ + Square of QR = Square of RP (B) Square of PQ + Square of PR = Square of QR
 (C) Square of PR + Square of QR = Square of PQ (D) None of them

21. Which is the largest side of a right angle triangle?

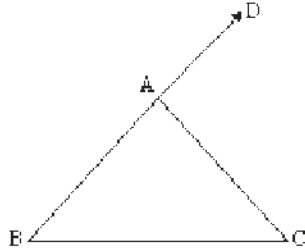
- (A) Median (B) Hypotenuse (C) Arm (D) Altitude

22. Is the triangle possible, if sides of the triangle are 5 cm, 12 cm and 6 cm?

23. Is the triangle possible if angles of the triangle are 30° , 60° , 80° ?

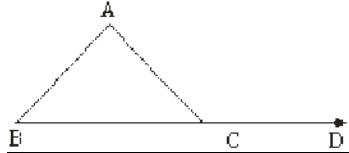
24. $\triangle ABC$ is right-angled at C. If AC = 5 cm and BC = 12 cm find the length of AB.

25. Find $\angle ACD$, if $\angle ABC = 30^\circ$ and $\angle CAD = 80^\circ$.



- (A) 70° (B) 50° (C) 30° (D) 100°

26. Exterior angle of a triangle is equal to the sum of its _____ opposite angles.



- (A) interior (B) adjacent (C) vertically (D) alternate

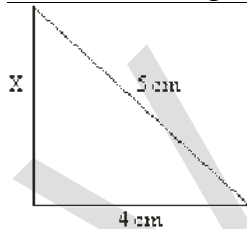
27. Can the exterior angle of a triangle be a straight angle?

- (A) Yes (B) No (C) May be (D) None of them

28. What is the value of the perimeter of a triangle whose sides are 10 cm, 30 cm and 50 cm?

- (A) 60 cm (B) 70 cm (C) 80 cm (D) 90 cm

29. Find x if the given figure is right angle triangle.



- (A) 3 cm (B) 4 cm (C) 5 cm (D) 6 cm

30. If all sides of a parallelogram are equal and diagonals bisect each other at right angles what will be the figure?

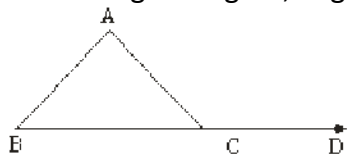
31. A _____ connects a vertex of a triangle to the mid point of opposite sides.

- (A) side (B) angle (C) vertex (D) median

32. How many medians can a triangle have?

- (A) 4 (B) 2 (C) 3 (D) 1

33. In the given figure, angle A = 60° , angle ACD = 120° . Find angle ABC.



- (A) 80°
(B) 80°

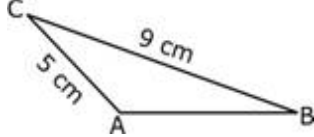
- (C) 65°
 (D) 60°

34. Diagonals of a Rhombus intersect each other at an angle of _____

35. The three angles of a triangle are in the ratio 1:2:3. Find the least angle of the given triangle.

- (A) 30° (B) 60° (C) 45° (D) 90°

36. The given triangle is if $CA = AB$



- (A) Right-angled (B) Isosceles triangle (C) Both (a) and (b) (D) None of them

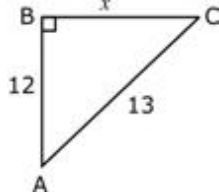
37. Two angles of a triangle are 30° and 70° . The third angle is

- (A) 90° (B) 100° (C) 70° (D) 80°

38. Find the perimeter of the rectangle whose length is 24 cm and a diagonal is 25 cm.

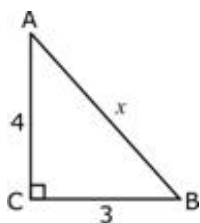
- (A) 60 cm (B) 69 cm (C) 62 cm (D) 56 cm

39. In the given figure the value of x is



- (A) 4 (B) 5 (C) 3 (D) 6

40. In the given figure the value of x is



- (A) 5 (B) 2 (C) 6 (D) 7

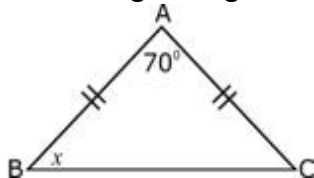
41. In an isosceles triangle base angles opposite to the equal sides are....

- (A) equal (B) complementary (C) supplementary (D) None of them

42. Pythagoras property holds in

- (A) Isosceles triangle (B) Right triangle (C) Equilateral triangle (D) Scalene triangle

43. In the given figure the value of x is ...

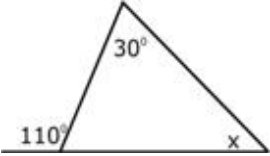


- (A) 45° (B) 35° (C) 55° (D) 65°

44. In an equilateral triangle each angle measure

- (A) 45° (B) 60° (C) 45° (D) None of them

45.Find the measure angle x in given figure:



- (A) 70° (B) 80° (C) 60° (D) 90°

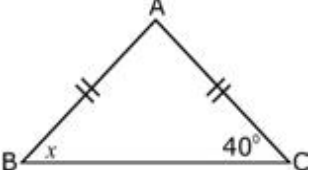
46.How many altitudes can a triangle have?

- (A) 1 (B) 2 (C) 3 (D) 4

47.Which is the longest side in the triangle PQR, right-angled at P?

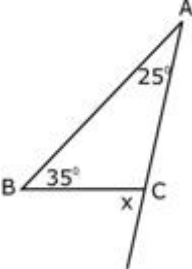
- (A) PQ (B) PR (C) RQ (D) None of them

48.In the given figure the value of x is



- (A) 50° (B) 40° (C) 60° (D) 30°

49.Find the value of x in the given figure



- (A) 60° (B) 70° (C) 50° (D) 80°

50.The length of two sides of a triangle are 10 cm and 13 cm. the possible length of the third side is.

- (A) Between 3 and 27 (B) Between 3 and 26 (C) Between 3 and 23 (D) Between 3 and 25

<2M>

51.Match the following from the code given below :

Column A

Column B

A. Isosceles triangle

(i) A triangle whose all 3 sides are equal

B. Equilateral triangle

(ii) A triangle in which all the sides are unequal

C. Scalene triangle

(iii) A triangle in which one of the angle is of 90°

D. Right angled triangle

(iv) A triangle in which 2 sides are equal

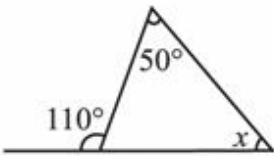
(A) A(i),B(ii),C(iii),D(iv)

(B) A(ii),B(iii),C(i),D(iv)

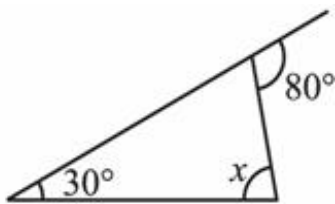
(C) A(iv),B(i),C(ii),D(iii)

(D) None of them

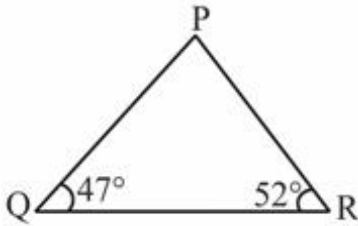
52.Find angle \hat{x} in the given figure.



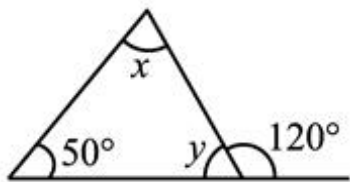
53.Find angle \hat{x} in the following figure.



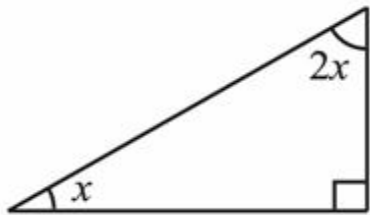
54. In the given figure, find $m \angle P$.



55. Find angles x and y in the following figure.



56. Find angle x in the following figure.

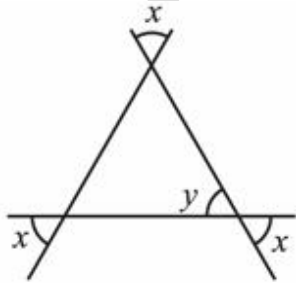


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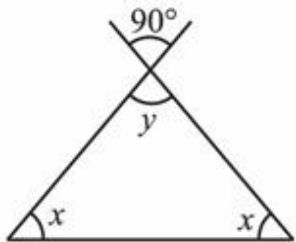
57. AM is a median of a triangle ABC, is $AB + BC + CA > 2AM$

58. 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?

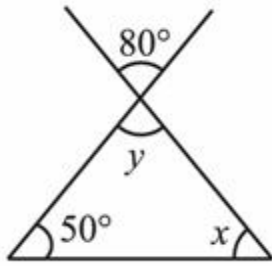
59. Find angles x and y in the following figure.



60. Find angles x and y in the following figure.



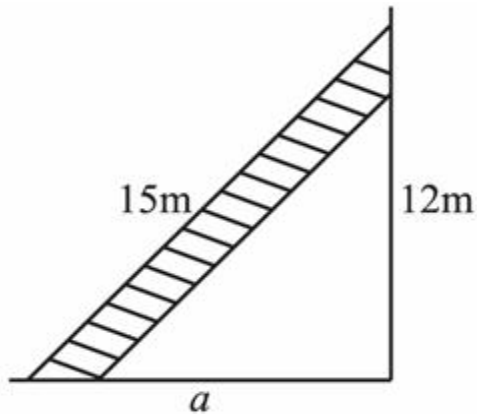
61. Find angles x and y in the following figure.



<5M>

62. A diagonals of a rhombus measure 24cm and 10 cm. Find its perimeter.

63. A 15 m long ladder reached a window 12 m high from the ground on placing it against a wall at a distance a . Find the distance of the foot of the ladder from the wall.

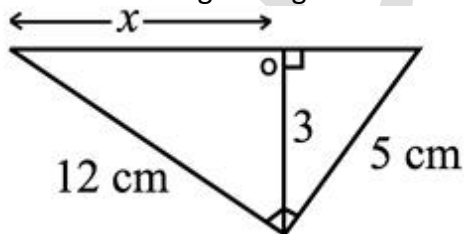


64. A tree is broken at a height of 5 m from the ground and is bent so that its top touches the ground at a distance of 12 m from the base of the tree. Find the original height of the tree.

65. (a) Find the perimeter of a rectangle whose length is 40 cm and one of the diagonals is 41 cm.

(b) PQR is a triangle, right angled at P. If $PQ = 10$ cm and $PR = 24$ cm find QR.

66. Find x in the given figure.



67. ABCD is a quadrilateral. Is $AB + BC + CD + DA > AC + BD$

68. ABCD is a quadrilateral. Is $AB + BC + CD + DA < 2(AC + BD)$