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CIRCUMCENTER

1. If the sides of a triangle are 11cm, 60cm and 61cm then find the circumradius?

- A) 30.5 B) 31.5 C) 31 D) 30

2. Sides of a triangle are 56 cm, 90 cm and 106 cm. Then find the circumference of circumcircle?

- A)
- 109 π**
- B)
- 106 π**
- C)
- 108 π**
- D)
- 112 π**

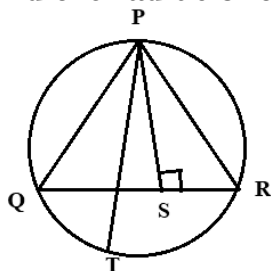
3. If 6cm, 8cm and 10cm are sides of a triangle then area of the circumcircle of that triangle is equal to?

- A)
- $\frac{275}{7}$
- B)
- $\frac{550}{7}$
- C)
- $\frac{2200}{7}$
- D)
- $\frac{1100}{7}$

4. In $\triangle ABC$, $\angle B = 65^\circ$, $\angle C = 75^\circ$ and 'O' is the circumcenter then $\angle OBC = ?$

- A)
- 40°
- B)
- 60°
- C)
- 50°
- D)
- 45°

5. In triangle PQR, PQ = 24 cm, PR = 12 cm and PS = 8 cm. If PT is the diameter of the circle then find the radius of the circle?



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- A) 12 cm B) 15 cm C) 16 cm D) 18 cm

6. In $\triangle ABC$, $BC = 8\sqrt{2}\text{cm}$, $\angle A = 45^\circ$ then find the circumradius?

- A) 6 cm B) 8 cm C) 9 cm D) 7.5 cm

7. The circumcenter of a triangle PQR is O. If $\angle QPR = 55^\circ$ and $\angle QRP = 75^\circ$, the value of $\angle OPR$ is

- A)
- 45°
- B)
- 40°
- C)
- 60°
- D)
- 60°

8. A triangle ABC is inscribed in a circle with center O. AO is produced to meet the circle at K and $AD \perp BC$. If $\angle B = 80^\circ$ and $\angle C = 64^\circ$, then the measure of $\angle DAK$ is

- A)
- 10°
- B)
- 16°
- C)
- 12°
- D)
- 20°

9. In the given $\triangle ABC$, O is circumcenter of triangle ABC. $BC = DC$, $\angle ABD = 20^\circ$ then $\theta = ?$

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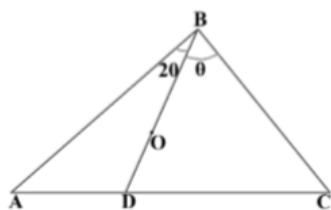
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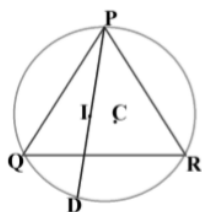
- A) 55° B) 54° C) 42° D) 50°

10. In $\triangle ABC$, the internal bisector of the $\angle A$, $\angle B$ and $\angle C$ intersect the circumcircle at P, Q and R respectively. If $\angle A = 36^\circ$, $\angle BQR = 20^\circ$ then find $\angle CRQ$?

- A) 56° B) 50° C) 65° D) 52°

11. In a $\triangle PQR$, I and C are respectively incentre and circumcenter of the triangle. Then line PI is extended which intersect the circumcircle at

point D. $\angle QCD = x$, $\angle PQR = y$ and $\angle QID = z$ find $\frac{x+y}{z}$?



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- A) 3 B) 1 C) $3/2$ D) 2

12. ABC is right angled triangle. $\angle ACB = 90^\circ$ and $\angle ABC = 30^\circ$. What is the ratio of the circumradius of the triangle to the side BC?

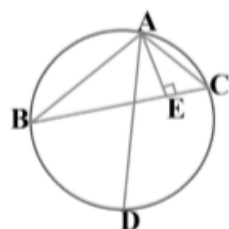
- A) $2 : \sqrt{3}$ B) $1 : \sqrt{3}$ C) 1:2 D) 2 : 3

13. What is the area (in cm^2) of the circumcircle of a triangle whose sides are 6 cm, 8 cm and 10 cm respectively?

- A) $\frac{275}{7}$ B) $\frac{550}{7}$ C) $\frac{220}{7}$ D) $\frac{1100}{7}$

14. In the given figure. ABC is a triangle in which

AB = 10 cm, AC = 6 cm and AE = 4 cm, if AD is diameter of circumcircle then find the radius of circumcircle?



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- A) 9 cm B) 7.5 cm C) 12 cm D) 15 cm

15. In a circle of radius 10cm with center O, PQ and PR are two chords each of length

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12cm. PO intersects chord QR at the point S. The length of OS is?

- A) 2.8 cm B) 2.5 cm C) 3.2 cm D) 3 cm

16. In a quadrant of a circle a square made in such a manner that two adjacent vertices of square situated on radius is equidistant from centre of circle and rest two vertices are

situated on circumference. If side of square is $\sqrt{\frac{5}{2}}$ cm then radius of circle?

- A) 2cm B) 2.5 cm C) 5 cm D) 10 cm

17. Find the distance between Incenter and circumcenter of a triangle whose sides are 12 cm, 16 cm and 20 cm?

- A) $\sqrt{20}$ B) $\sqrt{24}$ C) $\sqrt{30}$ D) $2\sqrt{27}$

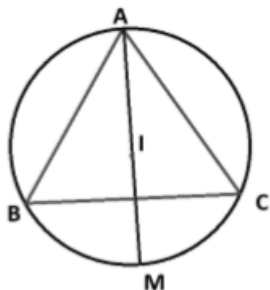
18. Find the distance between centroid and circumcenter of a triangle, whose sides are 5cm, 12cm and 13 cm?

- A) $\frac{13}{4}$ cm B) $\frac{13}{3}$ cm C) $\frac{13}{6}$ cm D) 6.5 cm

19. In a quadrilateral PQRS such that SR = 17cm, $\angle PQR = 122^\circ$ and $\angle PSR = 116^\circ$. Find QS?

- A) 25.5 cm B) 34 cm C) 17 cm D) 8.5 cm

20. In the given figure. The I is the incentre of $\triangle ABC$. If IM = 10cm then BM ?



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- A) 10cm B) 8cm C) 6cm D) 9cm

21. Find the ratio of circumradius to inradius of a triangle, if the ratio of sides of a triangle is 4:5:7?

- A) 35 : 12 B) 35 : 16 C) 28 : 15 D) 5 : 3

22. In $\triangle ABC$ angle bisectors of $\angle A$, $\angle B$ and $\angle C$ cuts circumcircle at P, Q and

R respectively. If $\angle CRQ = 46^\circ$, $\angle A = 50^\circ$ then $\angle BQR = ?$

- A) 29° B) 39° C) 19° D) 18°

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