

Circles : Worksheet -4

1. The tangent at A to the circumcircle of $\triangle ABC$ is parallel to BC. Then $\triangle ABC$ is an _____ triangle.
2. Two circles of radii 5 cm and 12 cm touch externally. The distance between their centres is _____
3. Two circles of radii 9 cm and 4 cm touch externally. The length of the direct common tangents drawn to them is _____
4. Two chords AB and CD of a circle meet at O. If $AO=8$ cm; $OB = 3$ cm
And $OC = 6$ cm then $OD =$ _____
5. The radii of the circles are 5 cm and 3cm and the distance between their centres is 10cm. Number of common tangents drawn to the two circles is _____
6. The distance between the centres of two circles of radii r_1 and r_2 is 'd'.
The length of their transverse common tangent is _____
7. In $\triangle ABC$, If a circle drawn on BC as diameter passes through A, then $\triangle ABC$ is _____
8. If an arc subtends an angle of 60° at the centre then its corresponding arc subtends an angle of _____ at the centre .
9. Two circles are of radii 3 cm and 1 cm. The distance between their centres is 5 cm. Length of their transverse common tangent is _____ cm.
10. The tangents at the ends of a diameter of a circle are _____
11. The centre of circle which passes through the three vertices of a triangle is called _____.
12. The angle subtended by a minor arc in its alternate segment is _____

