Circles : Worksheet -3

1. Two circles whose radii are 5 cm and 3 cm touch externally. The distance between the centres is _ _ _ _ _ _ _ _ _
2. PT is a tangent and PAB is a secant of the circle meeting the circle at A and B. If PA = 4 cm and AB = 5 cm, then PT = _ _ _ _ _ _ _ _ _
3. The length of a tangent drawn to a circle with radius 'r' from an external point P which is 'd' an away from the centre is _ _ _ _ _ _ _ _
4. Two circles with radii R and r (R > r) touch internally and d is the distance between centres. Then _ _ _ _ _ _ _ _ _
5. The angle between tangent to a circle and the radius through the point of contact is _ _ _ _ _ _ _ _ _ _
6. A line which intersects a circle in two distinct points is called a _ _ _ _ _ _ _ _ _ _
7. In a circle PT is a tangent and PAB is a secant. PT^2 = _ _ _ _ _ _ _ _ _ _
8. If a line intersects a circle in only one point, the line is called a _ _ _ _ to the circle.
9. The locus of the centres of circles which touch a given line at a given point on it is _ _ _ _ _ _ _ _ _ _ _ _
10. The two tangents drawn from an external point to a circle are _ _ _ _ _ _ _ _ _ _
11. If two circles touch internally, the distance between their centres is the _ _ _ _ _ _ of their radii.
12. Number of common tangents that can be drawn to two intersecting circles is _ _ _