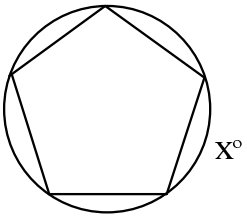
Always, Sometimes, Never

1.) A radius that meets a tangent of a circle is perpendicular to this tangent.
Always

2.) 2 circles have 4 common tangents.
Sometimes

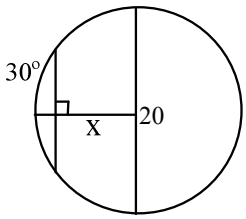
3.) Congruent chords have congruent arcs.
Sometimes

This is a regular pentagon inscribed in this circle.
Find the value of x



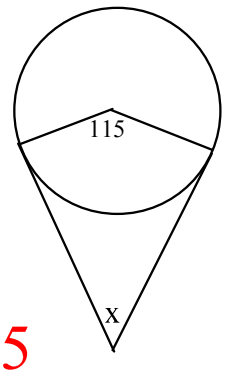
72

Find the value of x



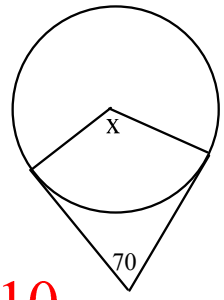
5 root (3)
8.7

Find the value of x



65

Find the value of x



110

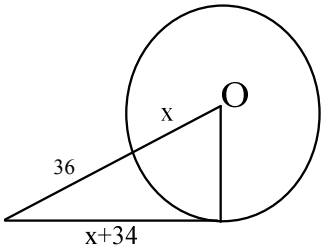
How many common tangents will 2 internally tangent circles share?

1

The radius of circle P is 30 cm. What is the length of a chord that is 18 cm from the center?

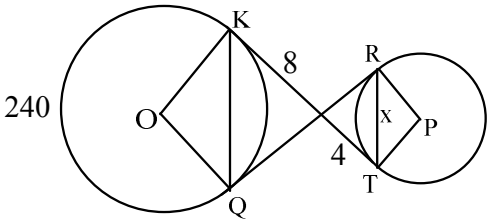
48

Find the value of x using circle O below:



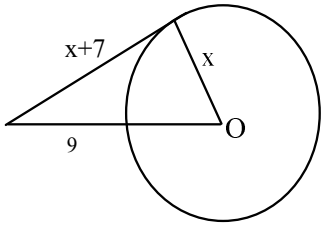
14

O and P are centers of circles with points of tangency K, Q, R, and T. Find RT.



4

Find the value of x

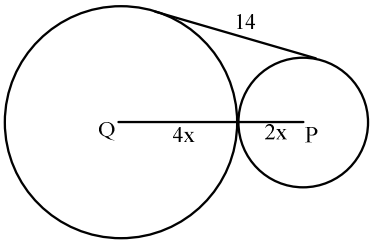


8

How many internal tangents do two externally tangent circles share?

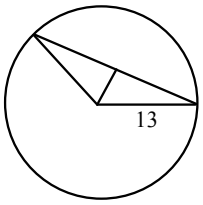
1

Q and P are the centers of these tangent circles. Find the value of x.



2.5

Circle P has radii $\overline{PB}$ and $\overline{PA}$ that meet at a 120 degree angle. If the diameter of the circle is 26 in, what is the length of $\overline{AB}$?



13 root (3)
22.5 in