

The chord of a circle is at a distance of 3 cm from the centre. If the length of the chord is 8 cm, find the radius of the circle.

Let chord AB, O - center of the circle. OH distance from center to AB, then AH=HB=4, OH=3 then radius which equal to OA from the Pythagorean theorem equal $\sqrt{3^2+4^2}=5$

