

Dr Oliver Mathematics

Worked Examples

Radius of a Circle 1

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1. In this circle, the two chords (the blue line is vertical and the red line is horizontal) are perpendicular to each other, as shown in Figure 1.

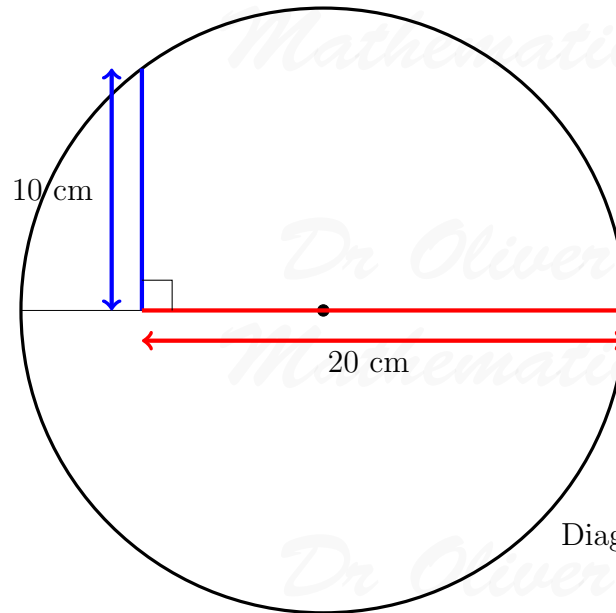


Diagram is not to scale

Figure 1: a circle

The horizontal chord passes through the centre of the circle.

The lengths of the horizontal and the vertical chords are respectively 20 units and 10 units.

Find the length of the radius of the circle.