

Dr Oliver Mathematics
Worked Examples
Radius of a Circle 2

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1. A square, with side length x cm, is drawn.

A circle, with radius r cm is drawn as follows: the circle is tangent to the bottom and left sides of the square and passes through its top-right corner, as shown in Figure 1.

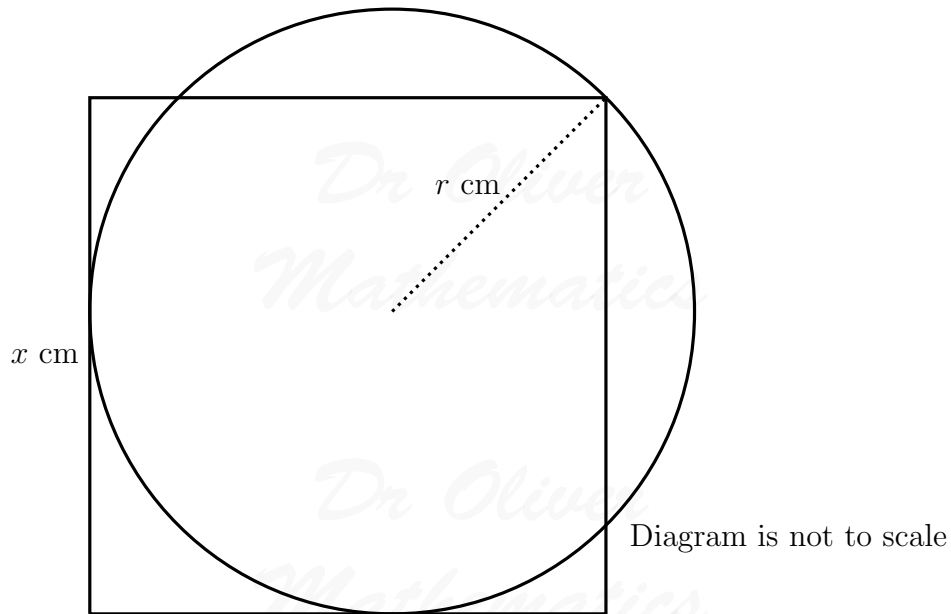


Figure 1: a square and a circle

Find the length of the radius of the circle.