

Dr Oliver Mathematics

Worked Examples

Two Tangent Circles 1

From: PreMath, 11 May 2023

- Two tangent circles are drawn, as shown in Figure 1.

Diagram is not to scale

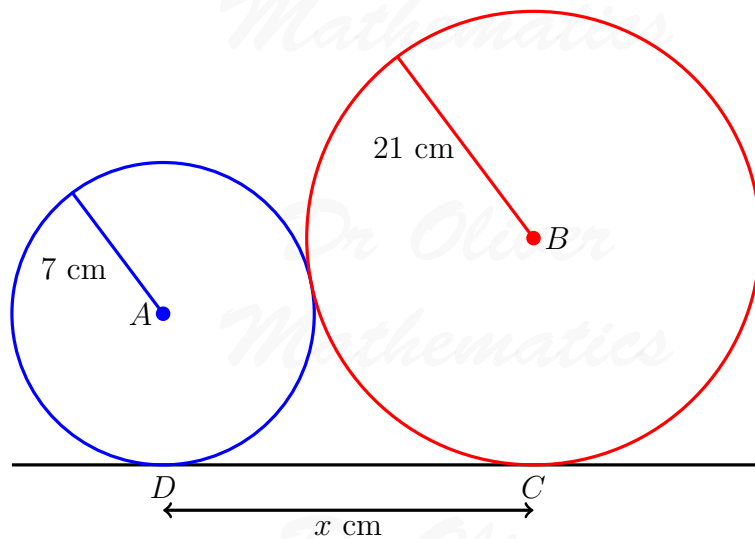


Figure 1: two tangent circles

The circle, centred at A , has a radius of 7 cm.
The circle, centred at B , has a radius of 21 cm.
 C and D are the points of tangency.
Let x cm be the horizontal distance CD .

Find x .