

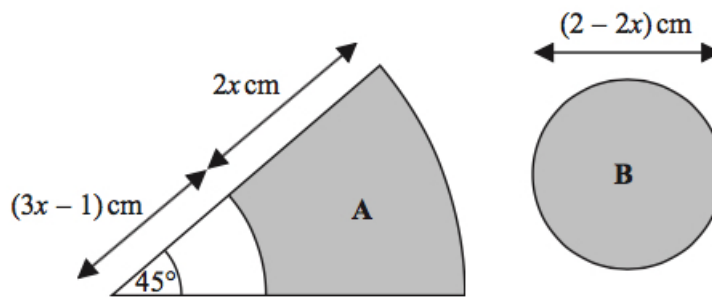
Dr Oliver Mathematics
Worked Examples
Circles and Sectors 1

From: Edexcel 2020 June Paper 1H (Non-Calculator)

1. The diagram shows two shaded shapes, **A** and **B**. (5)

Shape **A** is formed by removing a sector of a circle with radius $(3x - 1)$ cm from a sector of the circle with radius $(5x - 1)$ cm.

Shape **B** is a circle of diameter $(2 - 2x)$ cm.



The area of shape **A** is equal to the area of shape **B**.

Find the value of x .

You must show all your working.