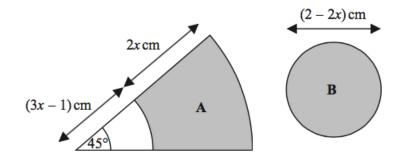
Dr Oliver Mathematics Worked Examples Circles and Sectors 1

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

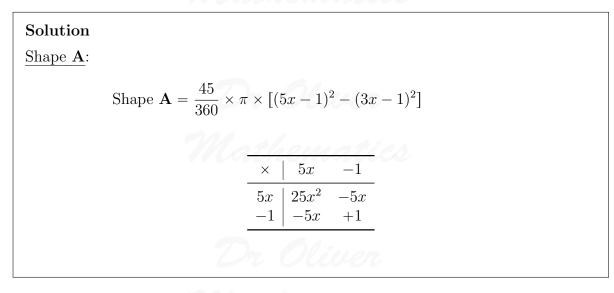
1. The diagram shows two shaded shapes, A and B.

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. (5)



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

Find the value of x. You must show all your working.



Mathematics

