

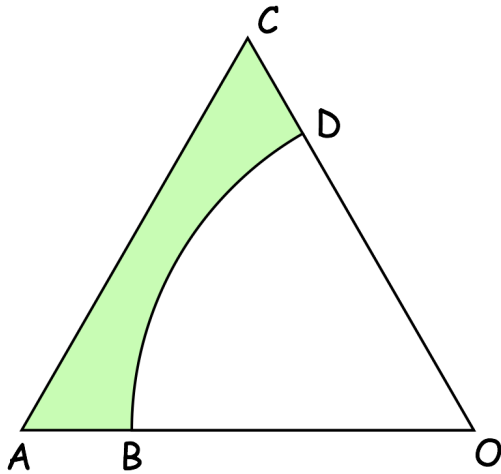
23rd May



Corbettmaths

Simplify

$$(27x^6)^{\frac{2}{3}}$$



AOC is an equilateral triangle of side length 14cm.

OBD is a sector of a circle with centre O and radius 11cm.

Calculate the area of the shaded region as a percentage of the area of triangle AOC.

Give your answer correct to 3 significant figures.

Find the coordinates where the line $x + y = 3$ and the curve $x^2 + 3y = 27$ intersect

Given

$$f(x) = \sqrt{3x - 4}$$

find x when

$$f(x) = 2.5$$