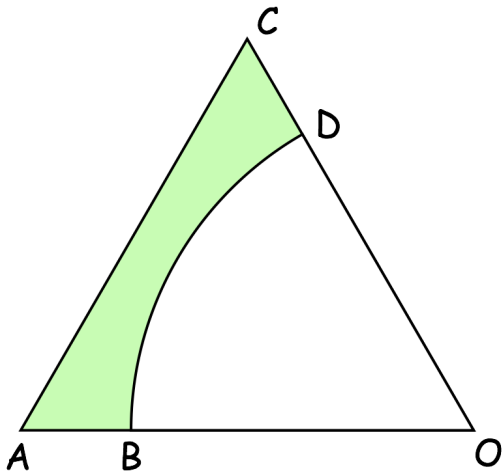




Simplify

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



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 $y = x + 1$ and the graph $y = \frac{6}{x}$ intersect.

Given

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

find a if $f(a) = 2.5$