

29th May

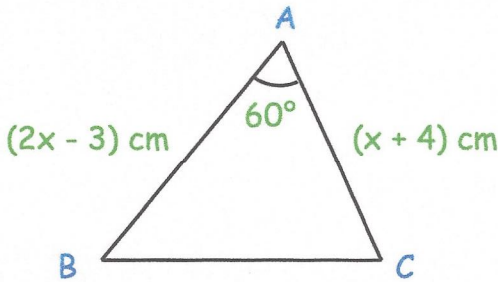


Corbettmaths

The curve $y = a^x$ crosses the y-axis at the point A

Write down the coordinates of A

$(0, 1)$



The area of the triangle is $15\sqrt{3}$ cm²
Find x to 3 significant figures

$$\frac{1}{2}(2x-3)(x+4)\sin 60 = 15\sqrt{3}$$

$$\frac{1}{2}(2x-3)(x+4)\frac{\sqrt{3}}{2} = 15\sqrt{3}$$

$$\frac{1}{4}(2x^2 + 8x - 3x - 12) = 15$$

$$x = 4.88$$

Amount spent, m, (£)	Frequency
$0 < m \leq 5$	4
$5 < m \leq 10$	12
$10 < m \leq 15$	26
$15 < m \leq 20$	8

*

50

Find an estimate of the median

$$10 + \frac{9}{26} \times 5$$

$$11.73$$

Given

$$f(x) = \frac{8x-1}{5}$$

$$y = \frac{8x-1}{5}$$

find

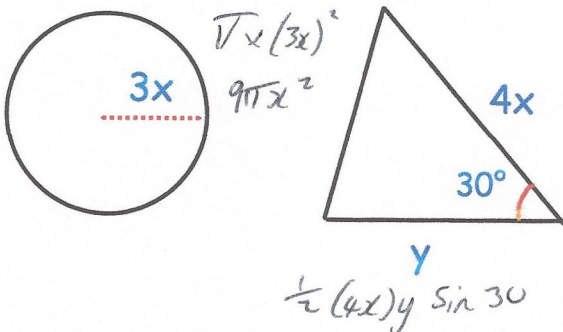
$$f^{-1}(x)$$

$$5y = 8x - 1$$

$$5y + 1 = 8x$$

$$x = \frac{5y+1}{8}$$

$$f^{-1}(x) = \frac{5x+1}{8}$$



The areas of the circle and triangle are equal.

Express y in terms of x.

$$xy = 9\pi x^2$$

$$y = 9\pi x$$

xy