

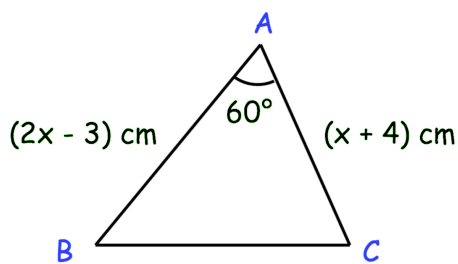


The curve $y = a^x$ crosses the y-axis at the point A

Write down the coordinates of A

Finn and Ben take part in a 10km race.
Ben crossed the start line at 2pm and jogs the entire race at 8km/h
Finn crossed the start line at 2:10pm and jogs at a constant speed.
Finn overtook Ben at 2:40pm.

How long before Ben, does Finn finish the race?



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

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

Find an estimate of the median

$$f(x) = x^2 - 8$$

$$g(x) = 6 - 7x$$

Solve $f(x) = g(2x)$

Give each answer to 1 decimal place.