

28th March

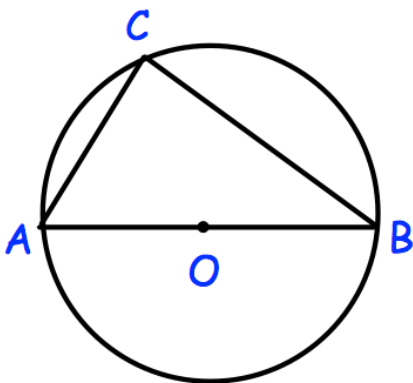
Corbettmaths

Factorise fully

$$3x^2 - 48$$

Height h (metres)	Frequency
$0 < h \leq 2$	12
$2 < h \leq 4$	8
$4 < h \leq 6$	12
$6 < h \leq 8$	10

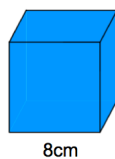
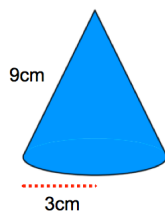
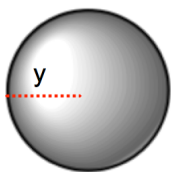
Two trees are selected at random. What is the probability they are both over two metres?



Angle $ABC = 24^\circ$
Find angle BAC

Simplify

$$\frac{x^2 + 13x + 40}{x^2 + 14x + 48}$$



Shown below is a sphere, cone and cube. The surface area of the sphere is equal to the sum of the surface areas of the cone and cube. Find y .