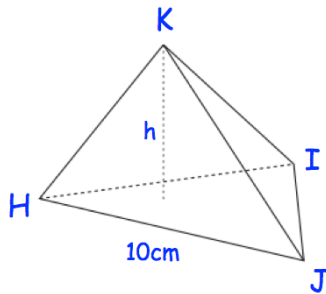


26th March

Corbettmaths

A, B and C have coordinates
 $(2, 9)$, $(5, -3)$ and $(6, k)$ respectively.
 AB is perpendicular to AC

Find k 

HIJK is a triangle based pyramid.

The base HIJ is an equilateral triangle
 with side 10cm.

The volume of the pyramid is 300cm^3 .

Calculate the perpendicular height, h , of
 the pyramid.

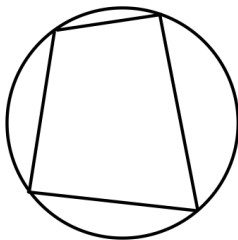
The point $(-6, -7)$ is the turning
 point of the graph $y = x^2 + ax + b$

Find a and b

C and D are two independent
 events

$$P(C) = 0.6$$

$$P(D') = 0.3$$

Find $P(C \cap D)$ 

Prove the opposite angles in a cyclic
 quadrilateral add to 180°