

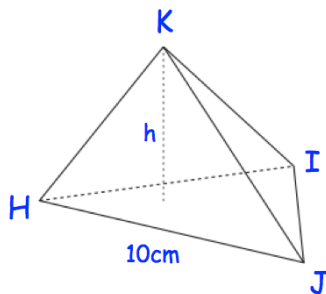
28th November

Corbettmaths

Solve the simultaneous equations

$$9^x \times 27^{2-y} = 3\sqrt{3}$$

$$3x + 2y = 3$$

Expand and simplify $(3 + \sqrt{8})(4 + \sqrt{2})$ 

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 $P(C \cap D)$