## 23rd January

## **Higher Plus 5-a-day**

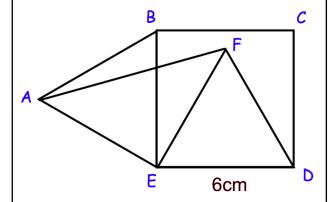


Find the minimum point of the graph

$$y = x^2 - 6x + 7$$

The set of values for x that satisfies a quadratic inequality is x < -0.5 or x > 1.5

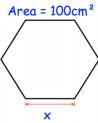
Write down a possible quadratic inequality.



BCDE is a square DFE and ABE are equilateral triangles

Find the length of AF

Below is a regular hexagon with an area of 100cm<sup>2</sup>



Find x