

23rd January



Corbettmaths

Find the minimum point of the graph
 $y = x^2 - 6x + 7$

$$(x-3)^2 - 9 + 7$$

$$(x-3)^2 - 2$$

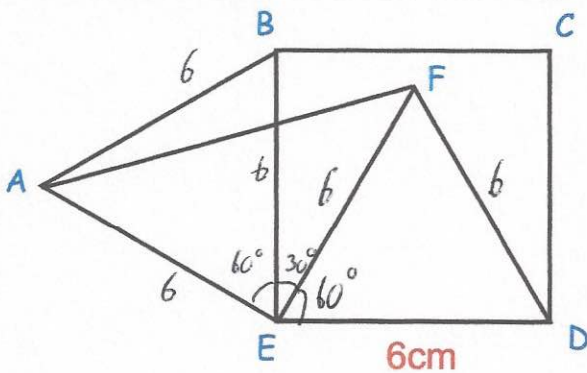
$$(3, -2)$$

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

$$(2x+1)(2x-3) > 0$$

$$4x^2 - 4x - 3 > 0$$

Write down a possible quadratic
 inequality.



BCDE is a square
 DFE and ABE are equilateral triangles

Find the length of AF

$$AF^2 = 6^2 + 6^2$$

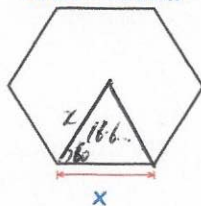
$$AF^2 = 36 + 36$$

$$AF = \sqrt{72}$$

$$= 6\sqrt{2} \text{ cm}$$

Below is a regular hexagon

Area = 100cm^2



Find x

$$\frac{1}{2} x^2 \sin 60 = 16.6$$

$$x^2 = \frac{33.3}{\sin 60}$$

$$x^2 = 38.49 \dots$$

$$x = 6.2 \text{ cm}$$