

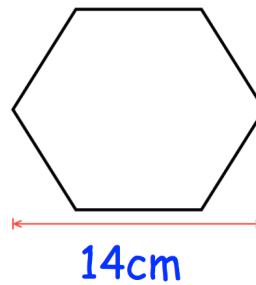
28th December

Corbettmaths

Solve

$$2x^2 + x - 6 > 0$$

Find the area of the regular hexagon shown.



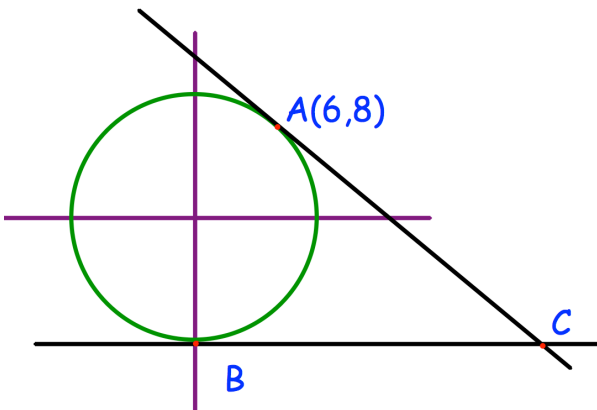
The population of an island is decreasing exponentially.

Martin has begun to monitor the population each year.

Year 6 - Population 3000

Year 8 - Population 2000

What was the population in Year 3?



Explain why AC and BC are equal lengths

Shown is a circle, centre O.
A and B are points on the circle.
AC and BC are tangents.

Calculate the distance AB