

**13th September**

Corbettmaths

Simplify

$$16^{-\frac{3}{2}}$$

The graph  $y = x^2 + 6x - 1$  has a line of symmetry.

Write down the equation of the line of symmetry.

Prove

$(2n + 9)^2 - (2n + 5)^2$  is always a multiple of 4

The midpoints of the sides of a square of side 10cm are joined to form another square. This process is then repeated to create the shaded square.

Find the area of the shaded square.

