

28th December



Corbettmaths

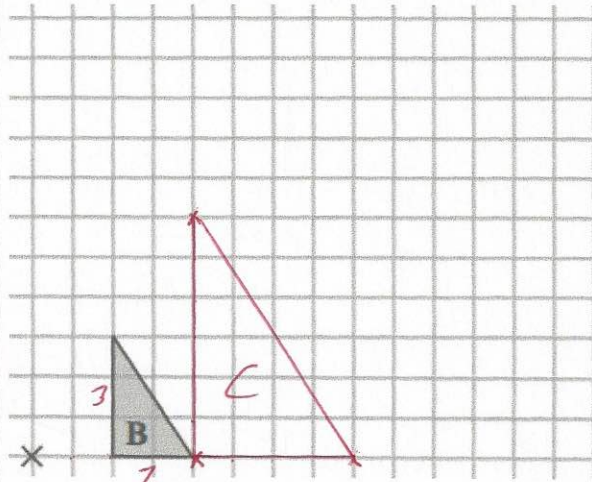
Work out the size of each interior angle of a regular 24-sided polygon.

$$360 \div 24 = 15^\circ$$

$$180 - 15 = 165^\circ$$

Enlarge B by scale factor 2. Label the new triangle C.

The centre of enlargement has been marked on the grid.



How many times larger is the area of C than B?

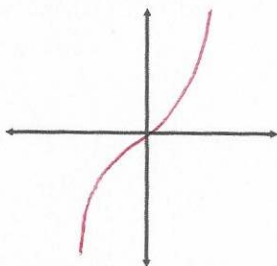
$$\begin{aligned} \text{Area of B} &= \frac{1}{2}(3 \times 2) \\ &= 3\text{cm}^2 \end{aligned}$$

$$\begin{aligned} \text{Area of C} &= \frac{1}{2}(6 \times 4) \\ &= 12\text{cm}^2 \end{aligned}$$

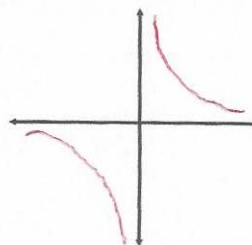
$$12 \div 3 = 4 \text{ times}$$

Write down the exact value of $\cos 30^\circ$

$$\frac{\sqrt{3}}{2}$$



Sketch $y = x^3$



Sketch $y = \frac{1}{x}$ where $x \neq 0$