8th November **Higher 5-a-day**

Corbettmaths

Shape A is translated by vector $\begin{pmatrix} 3 \\ -1 \end{pmatrix}$ to make Shape B.

Shape B is translated by vector $\begin{pmatrix} -5 \\ -2 \end{pmatrix}$ to make Shape C.

Describe the single transformation that maps Shape C to Shape A

$\overrightarrow{AC} = \begin{pmatrix} -2 \\ -3 \end{pmatrix}$ $\overrightarrow{CA} = \begin{pmatrix} 2 \\ 3 \end{pmatrix}$

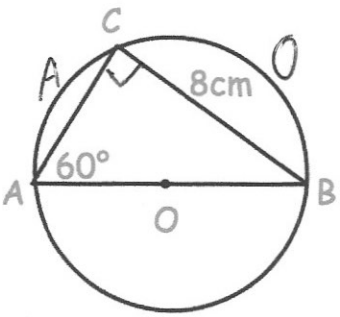
translation by $\begin{pmatrix} 2 \\ 3 \end{pmatrix}$

Work out the value of

$125^{\frac{2}{3}}$

$\sqrt[3]{125} = 5$

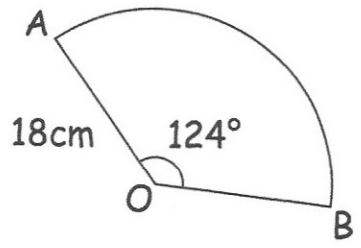
$5^2 = 25$



$T^0 A$

Find AC.

$\frac{8}{\tan 60} = 4.6188\text{ cm}$



Find the area of the sector.

$\frac{124}{360} \times \pi \times 18^2$

350.6 cm^2

Write down the equation of a line perpendicular to $y = 5x + 3$

$y = -\frac{1}{5}x + 8$

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