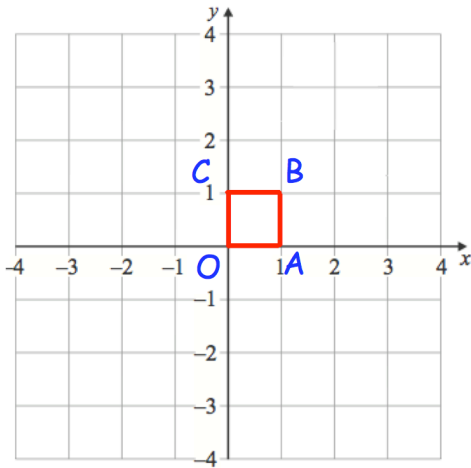


21st December



Corbettmaths



Draw and label OA'B'C'

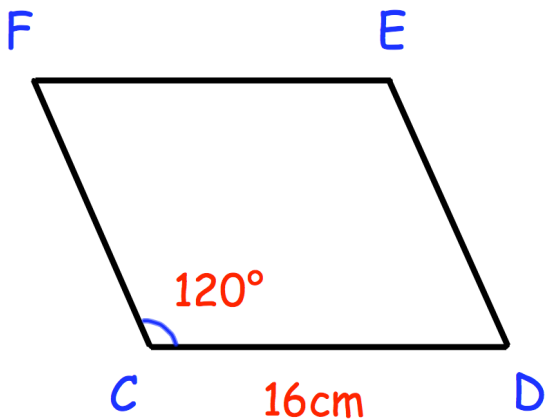
Describe the transformation fully.

OABC is transformed by the matrix

$$\begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix} \text{ to give OA'B'C'}$$

Show that $(3n + 2)^3 + 1$ is divisible by 9 for all integer values of n

CDEF is a rhombus.



Calculate the area of the rhombus.