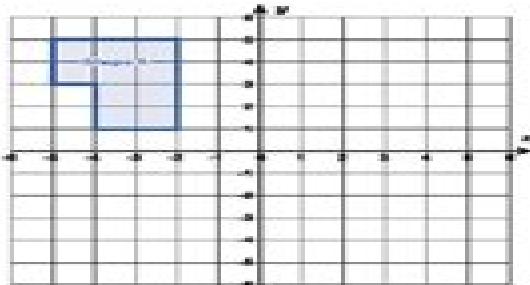


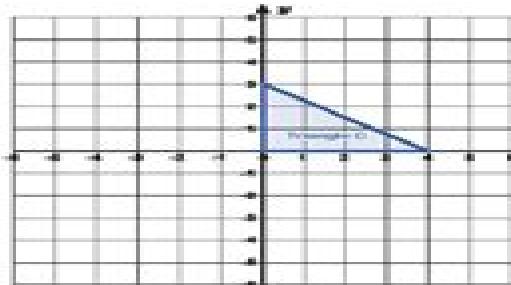
Combining Transformations

Section A

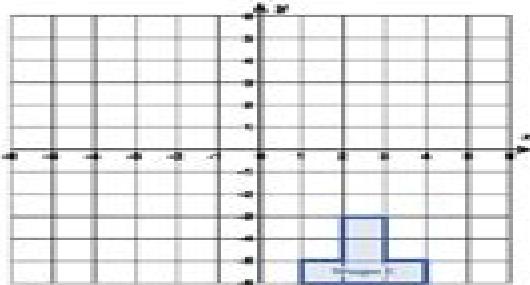
Complete the transformations by drawing the shapes on the coordinate grids.



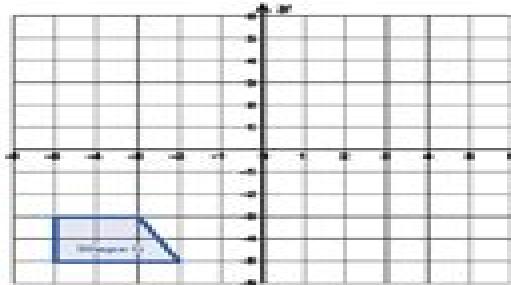
1) Shape A is first reflected in the y -axis and then translated by the vector $\begin{pmatrix} -2 \\ 6 \end{pmatrix}$ to give Shape B.



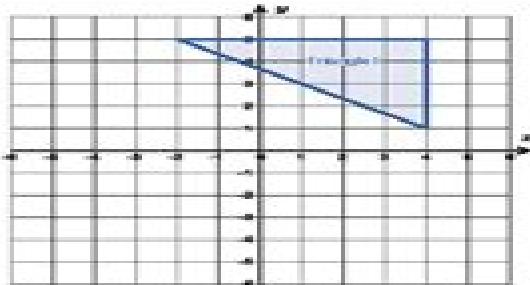
2) Triangle C is rotated 180° from the point $(-1, 2)$ and is then reflected in the line $y = x$ to give Triangle D.



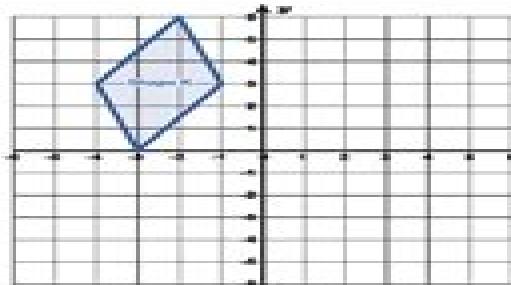
3) Shape E is first enlarged by a scale factor of -2 from the centre of enlargement $(2, -3)$ and secondly translated by the vector $\begin{pmatrix} -4 \\ 3 \end{pmatrix}$ to give Shape F.



4) Shape G is rotated 90° clockwise about the origin and is then reflected in the line $x = -3$ to give Shape H.



5) Triangle I is enlarged by a scale factor of $\frac{1}{2}$, centre of enlargement $(0, -1)$ and is then reflected in the line $y = -x$ to give Triangle J.



6) Shape K is first translated by the vector $\begin{pmatrix} 0 \\ -4 \end{pmatrix}$ and is secondly rotated by 90° anti-clockwise about the point $(-1, 0)$ to give Shape L.

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