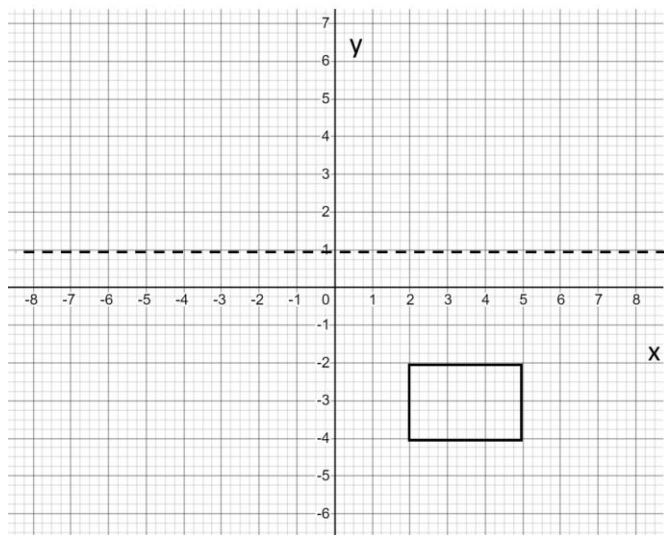




Mixed Transformations Exam Practice

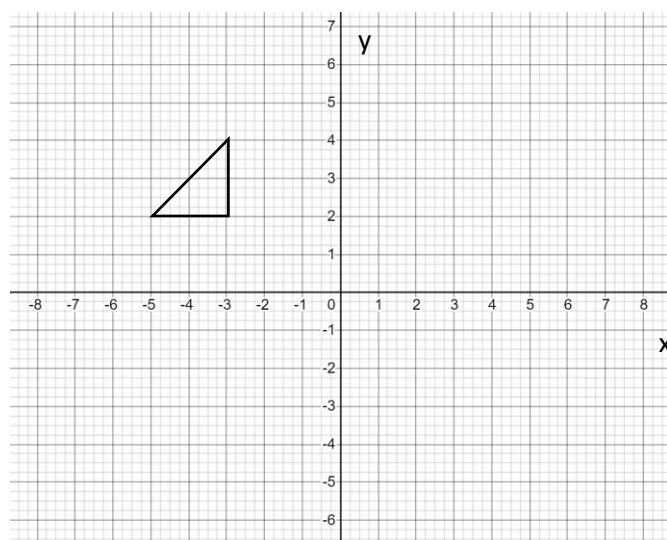
Q1. a) Reflect the shape in the dotted mirror line. Label the shape A. (2 marks)

b) Translate the shape A by the vector $\begin{pmatrix} -8 \\ 1 \end{pmatrix}$ (2 marks)



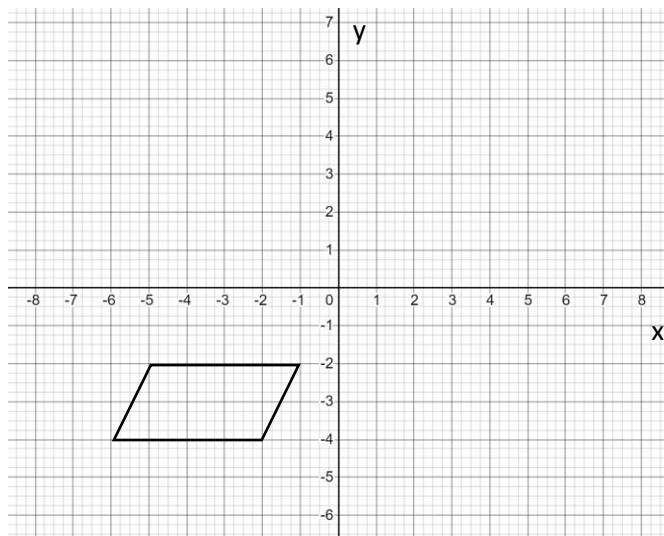
Q2. a) Enlarge the shape below by scale factor 2, centre $(-6, 4)$. Label the shape A. (2 marks)

b) Rotate shape A by 90° anti-clockwise. (2 marks)



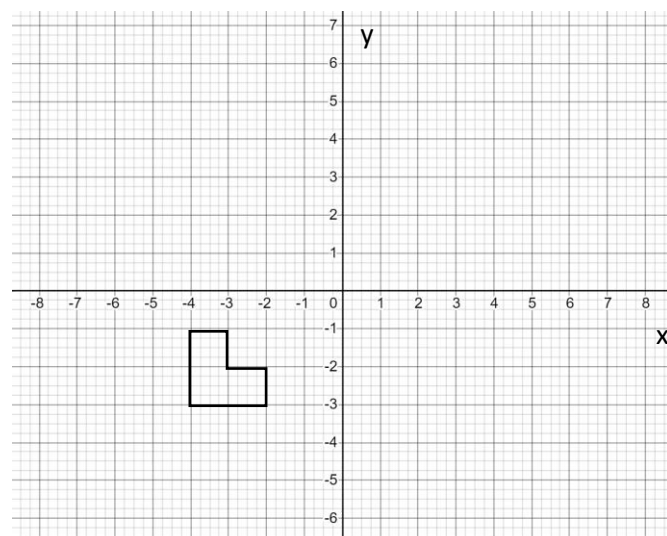
Q3. Reflect the shape in the line $y = 1$, followed by a reflection in the line $y = x$. (3 marks)

(3 marks)



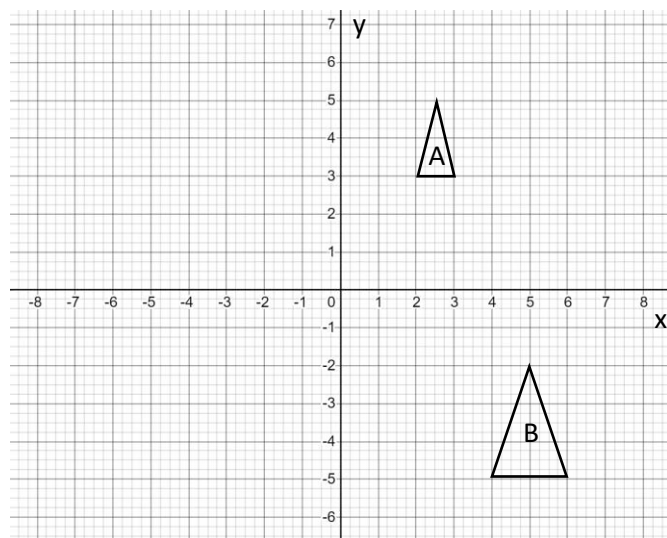
Q4. Rotate the shape 90° clockwise about the point $(-1, 0)$, followed by a rotation of 180° about the point $(2, 1)$ (3 marks)

(3 marks)

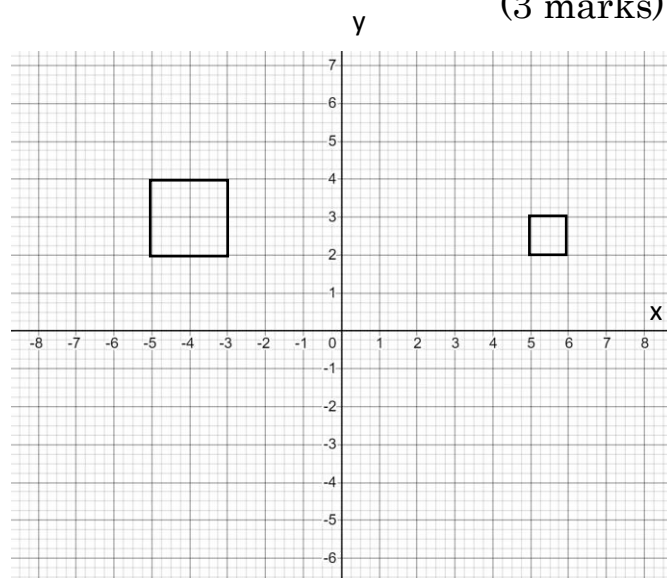




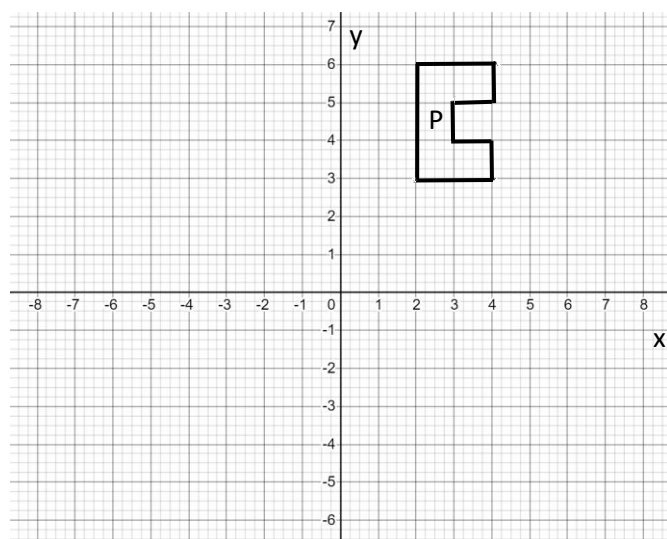
Q5. Describe fully two transformations which take shape B to shape A. (3 marks)



Q6. Describe fully two transformations which take shape B to shape A. (3 marks)



Q7. Translate shape P by the vector $\begin{pmatrix} 3 \\ -4 \end{pmatrix}$. Label the new shape Q. Reflect shape Q in the line $y = -x$. Label the new shape R. (3 marks)



Q8. In this question, you must work entirely within the grid shown. Enlarge shape P by scale factor 3 using a point of your choice. Then reflect the resulting shape in a line $y = a$ where the choice of a is left up to you. (3 marks)

