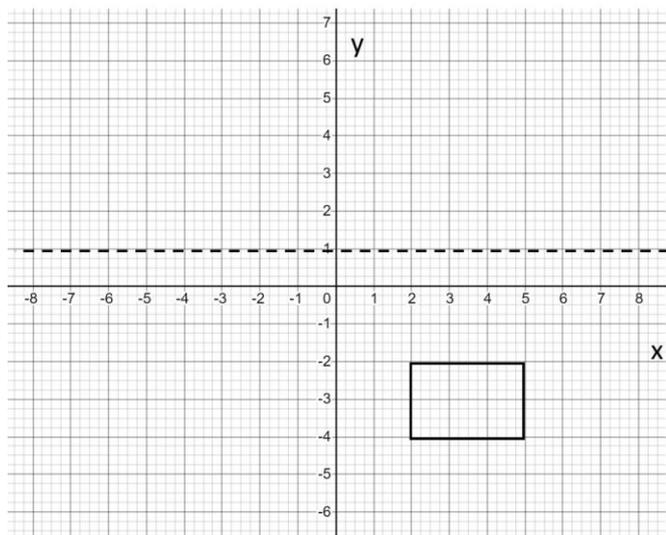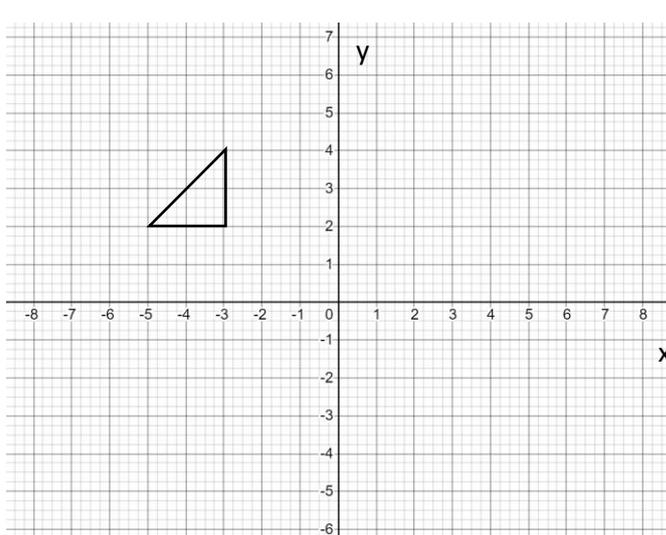# Mixed Transformations Exam Practice

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

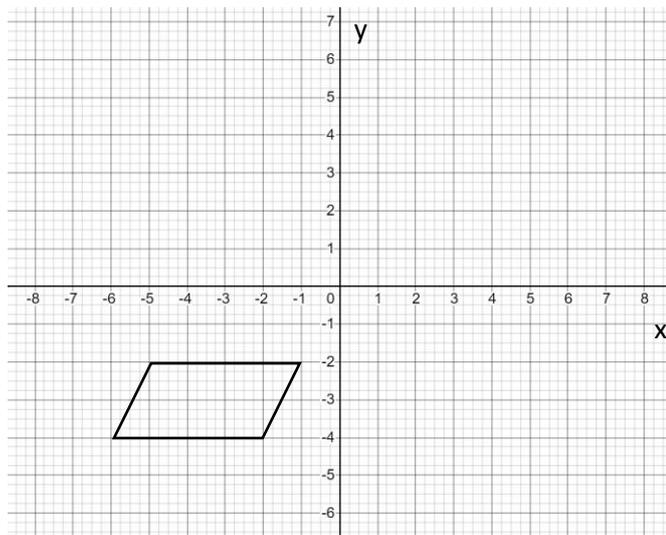 b) Translate the shape A by the vector $\begin{pmatrix} -8 \\ 1 \end{pmatrix}$ (2 marks)

Q2. a) Enlarge the shape below by scale factor 2, centre (-6,4). Label the shape A. (2 marks)
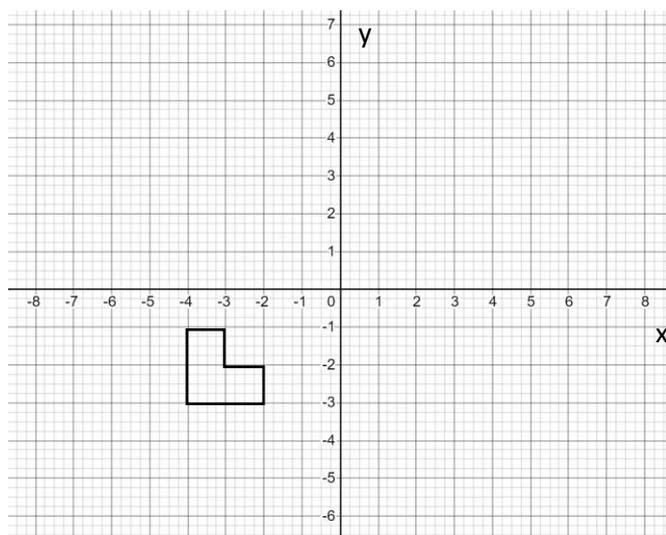
 b) Rotate shape A by 90° anti-clockwise. (2 marks)

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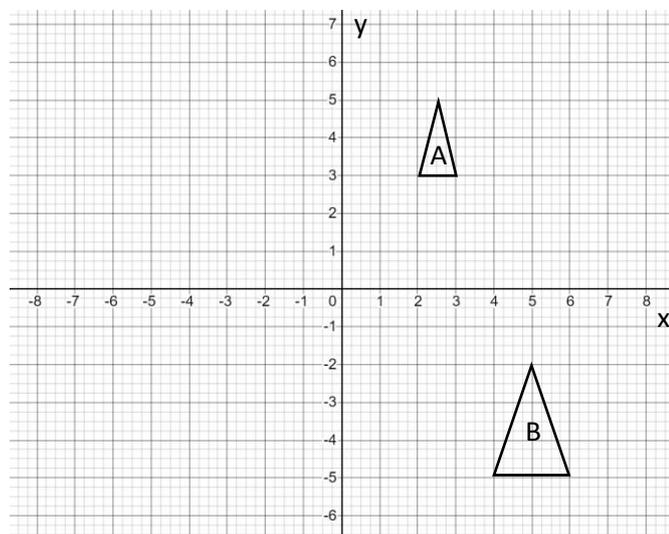
(3 marks)

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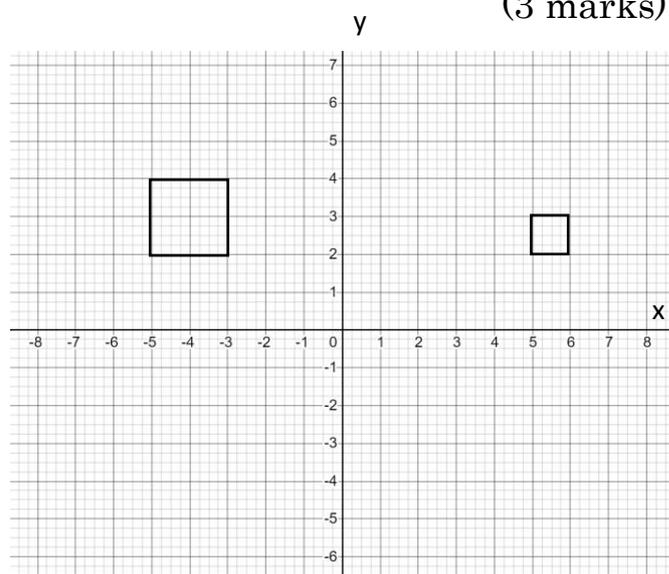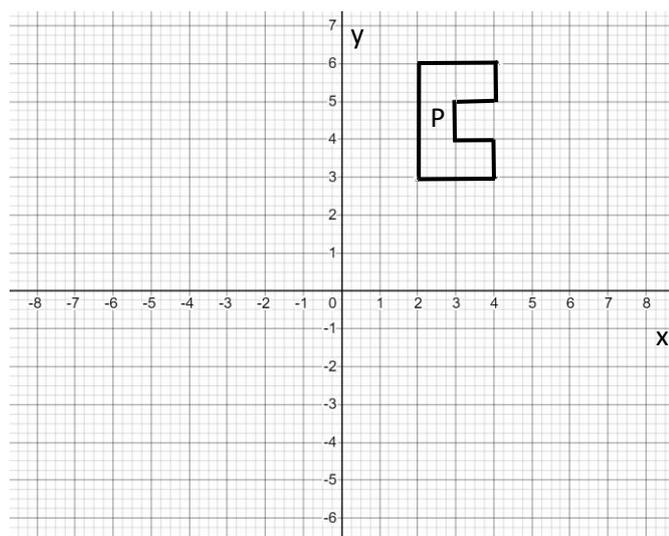
(3 marks)

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)