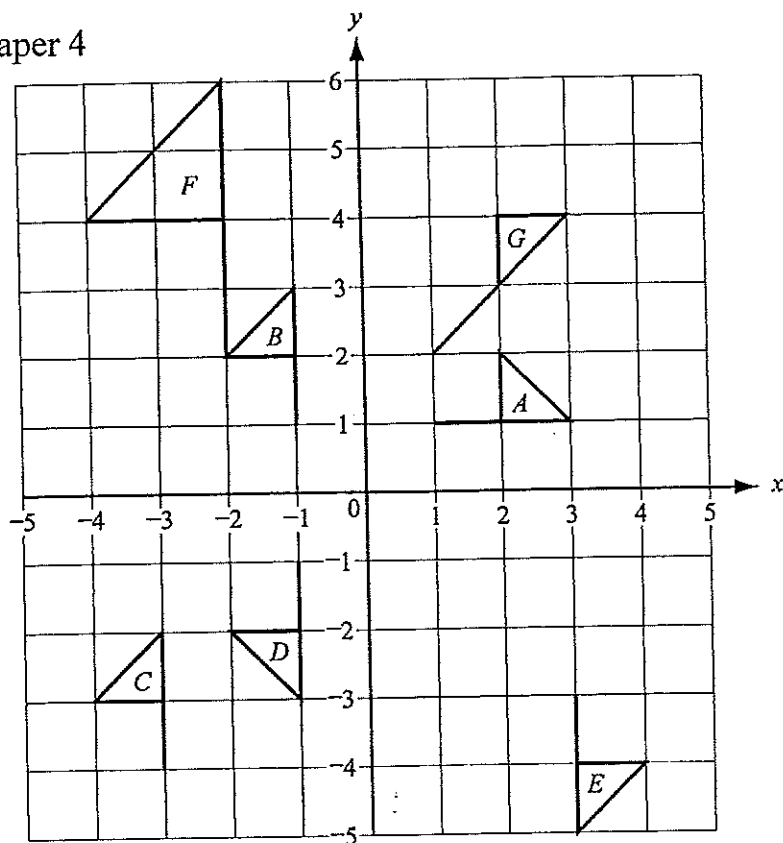


IGCSE Transformations – 5

8

May 04 Paper 4



(a) Describe fully the **single** transformation which maps

(i) shape *A* onto shape *B*,

[2]

(ii) shape *B* onto shape *C*,

[2]

(iii) shape *A* onto shape *D*,

[2]

(iv) shape *B* onto shape *E*,

[2]

(v) shape *B* onto shape *F*,

[2]

(vi) shape *A* onto shape *G*.

[2]

(b) A transformation is represented by the matrix $\begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$.

Which shape above is the image of shape *A* after this transformation?

[2]

(c) Find the 2 by 2 matrix representing the transformation which maps

(i) shape *B* onto shape *D*,

[2]

(ii) shape *A* onto shape *G*.

[2]