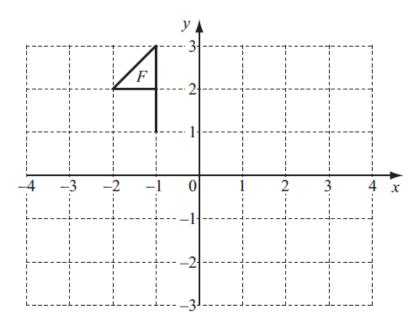


6.4 – Transformations

Student name: ______ Score: _____

1.



The diagram shows a flag F.

(a) Translate flag
$$F$$
 by $\begin{pmatrix} 3 \\ -2 \end{pmatrix}$. Label the image P . [2]

(b) Reflect flag F in the line x = 1. Label the image Q. [2]

^{2.} A P N F H

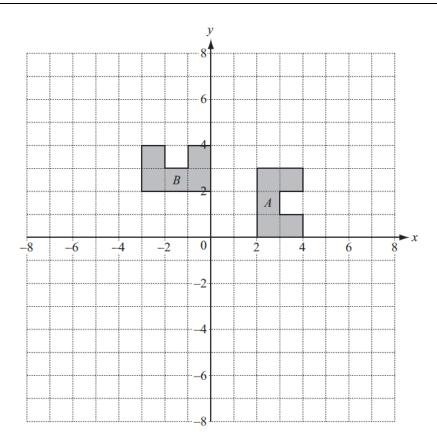
From the list above, write down the letter which has

line symmetry only,
line symmetry and rotational symmetry,
rotational symmetry only.

Paths Support

[2]

3.



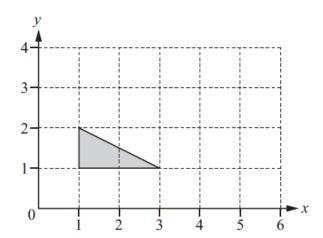
(a) Describe fully the single transformation which maps shape A onto shape B.

.....

[3]

(b) Draw the image of shape A after a stretch, with y-axis invariant and scale factor 2. [2]

4.

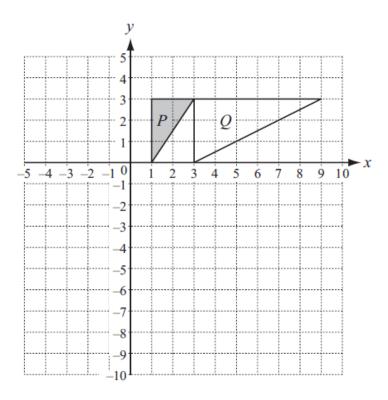


Draw the stretch of the shaded triangle with the y-axis invariant and factor 2.



[2]

5.



- (a) Enlarge shape P using centre (3, 4) and scale factor 3.
- (b) Describe fully the single transformation that maps shape P onto shape Q.

- 6. Triangle B is the image of triangle A after a reflection.
 - Triangle C is the image of triangle B after an enlargement, scale factor 2.
 - Triangle D is the image of triangle C after a rotation.
 - Triangle E is the image of triangle D after a stretch, factor 3.

Complete this table.

Write C if the triangles are congruent.

Write S if the triangles are similar.

Write N if the triangles are neither congruent nor similar.

Triangles	C, S or N
A and B	
A and C	
B and D	
D and E	

[3]

[2]



	scribe fully the inverse of each transformation. Translation by $\begin{pmatrix} -2 \\ 5 \end{pmatrix}$.	
(b)	Enlargement with centre (2, 3) and scale factor 2.	[2]
		[2]

