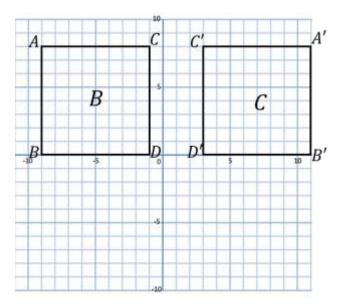


Transformations worksheet

Q1.

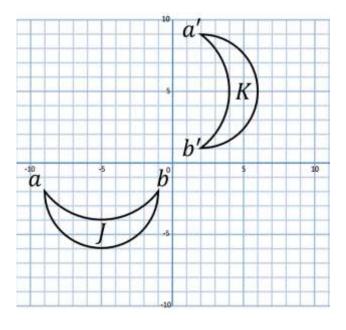
Describe the transformation that maps shape B onto shape C.



.....[2]

Q2.

Describe the transformation that maps shape K onto shape J.

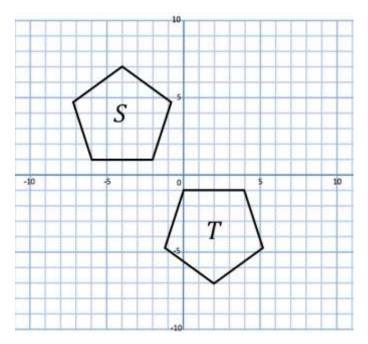


.....[2]



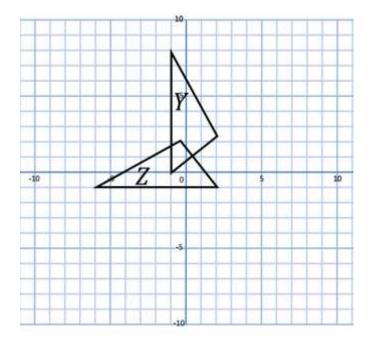
Q3.

Describe fully, the single transformation that maps S onto T.



Q4.

Describe fully, the single transformation that maps Y onto Z..

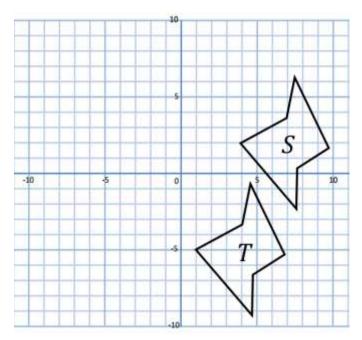


.....[3]



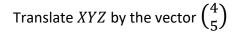
Q5.

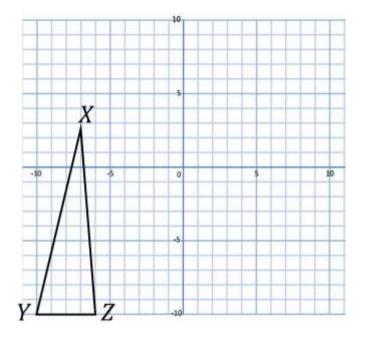
Describe fully, the single transformation that maps S onto T.



.....[2]

Q6.



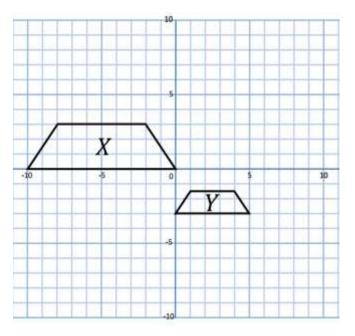


[2]



Q7.

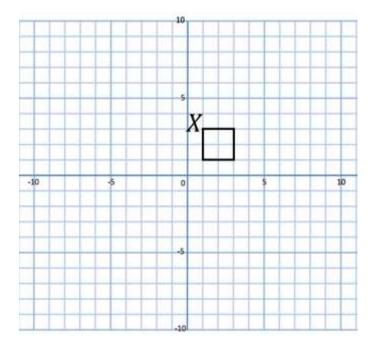
Describe fully, the single transformation that maps X onto Y.



.....[3]

Q8.

Enlarge the square by a scale factor of -2, centre (0,0). Give the new co-ordinates of point X.

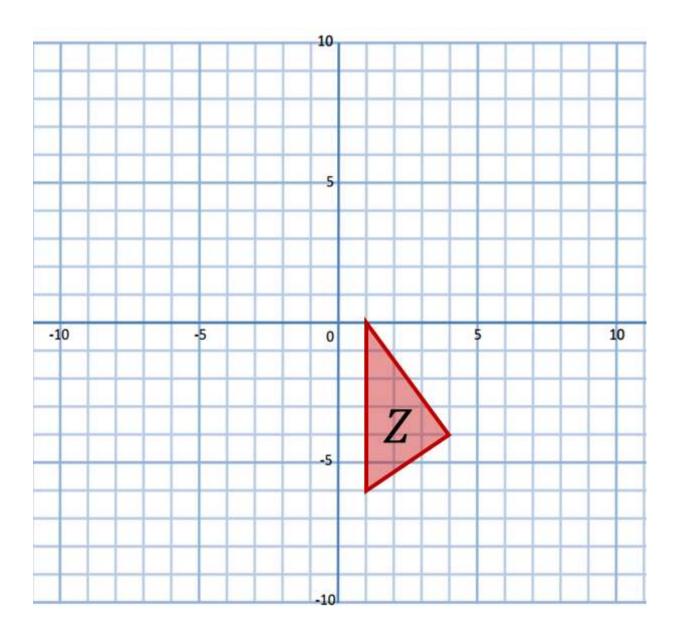




Q8. A02

Triangle X has vertices A (-2,1), B (-8,1) and C (-6,4),

(a) Rotate Triangle X 90° clockwise about the origin. Label this shape Y and give the new co-ordinates for A.



(b) Describe fully the single transformation that maps Y onto Z

.....[2]



Answers

- 1. Reflection in the line x = 1
- 2. Reflection in the line y = -x
- 3. Rotation, 180° about (-1,0)
- 4. Rotation 90° anticlockwise about (1,1)
- 5. Translation $\begin{pmatrix} -3 \\ -7 \end{pmatrix}$
- 6. Correct translation of shape 4 units right and 5 units up
- 7. Enlargement scale factor 0.5 or $\frac{1}{2}$ from (10, -6)
- 8. (-2,-6)
- 9. A' = (1,2)

Reflection in the line y = 1