

3.14 Transformations

Question Paper

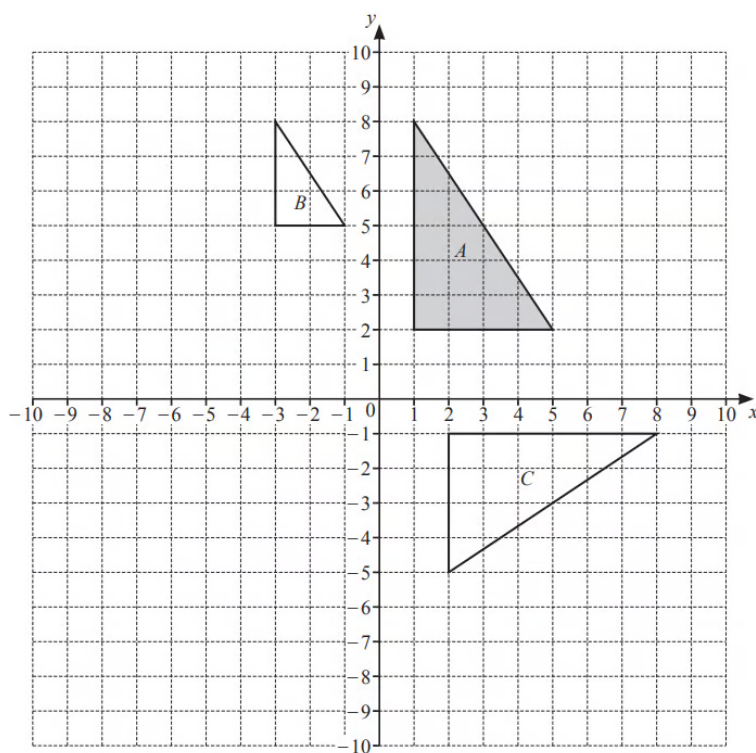
Course	CIE IGCSE Maths
Section	3. Geometry
Topic	3.14 Transformations
Difficulty	Very Hard

Time allowed: 30

Score: /24

Percentage: /100

Question 1



Describe fully the **single** transformation that maps

i)

triangle A onto triangle B,

[3]

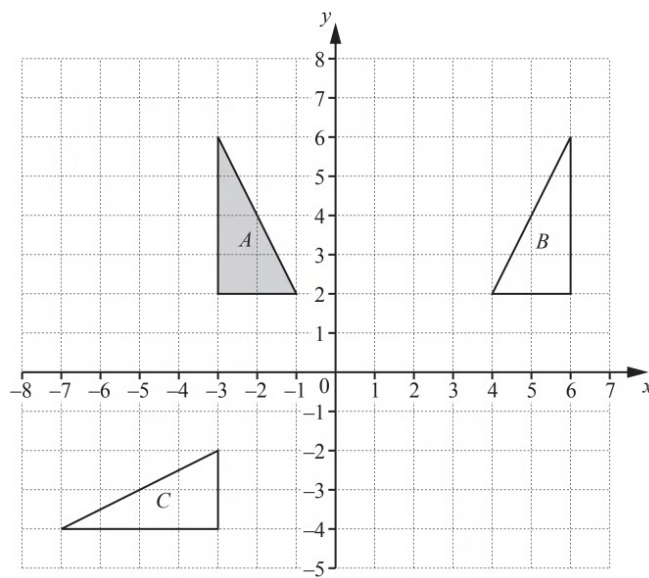
ii)

triangle A onto triangle C.

[3]

[6 marks]

Question 2

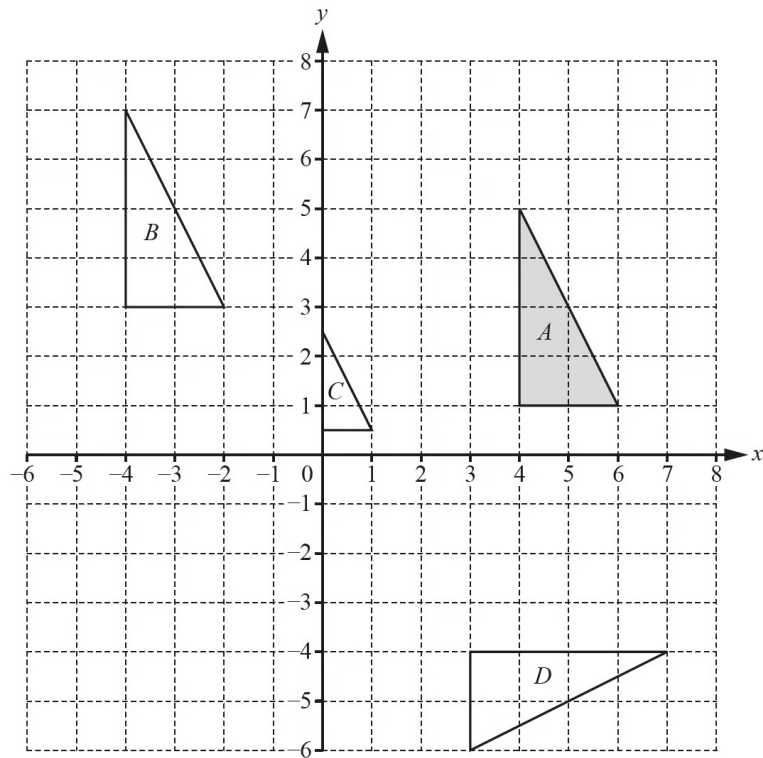


On the grid, draw the image of triangle A after an enlargement, scale factor $-\frac{1}{2}$, centre $(3, 0)$,

[2]

[2 marks]

Question 3

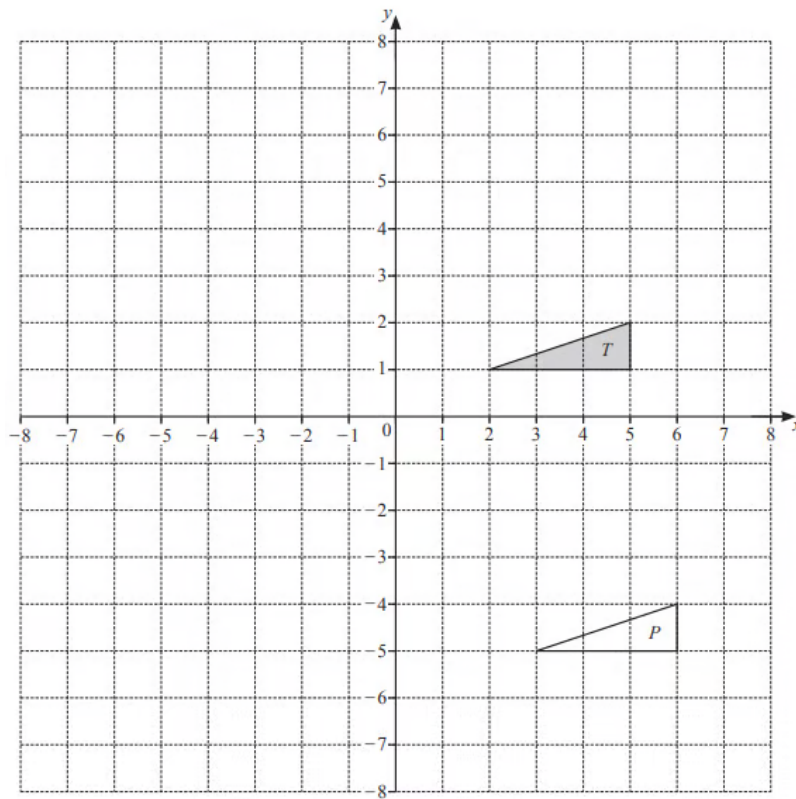


Describe fully the single transformation that maps triangle A onto triangle C.

[3]

[3 marks]

Question 4

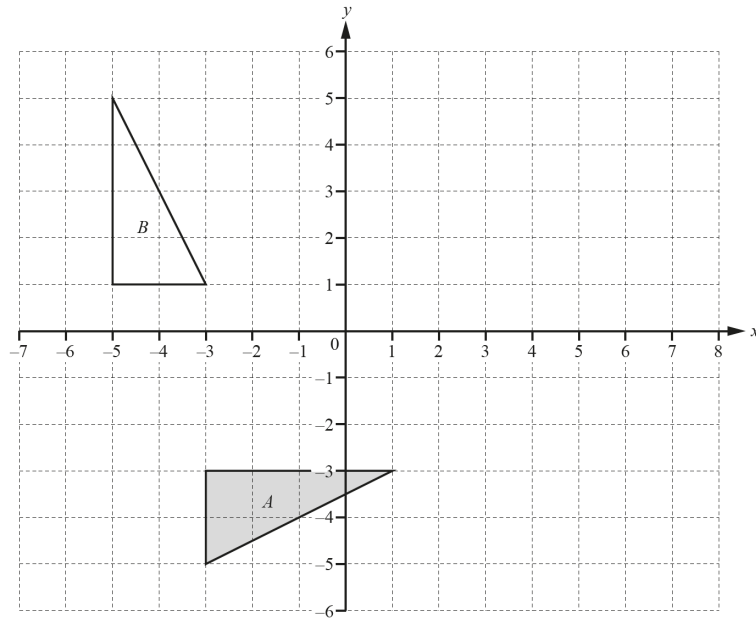


Enlarge triangle T by a scale factor of -2 , centre $(1, 0)$.

[2]

[2 marks]

Question 5



Draw the image of triangle A after an enlargement by scale factor $-\frac{1}{2}$, centre $(3, 1)$.

[3]

[3 marks]

Question 6

A line joins $A(1, 3)$ to $B(5, 8)$.

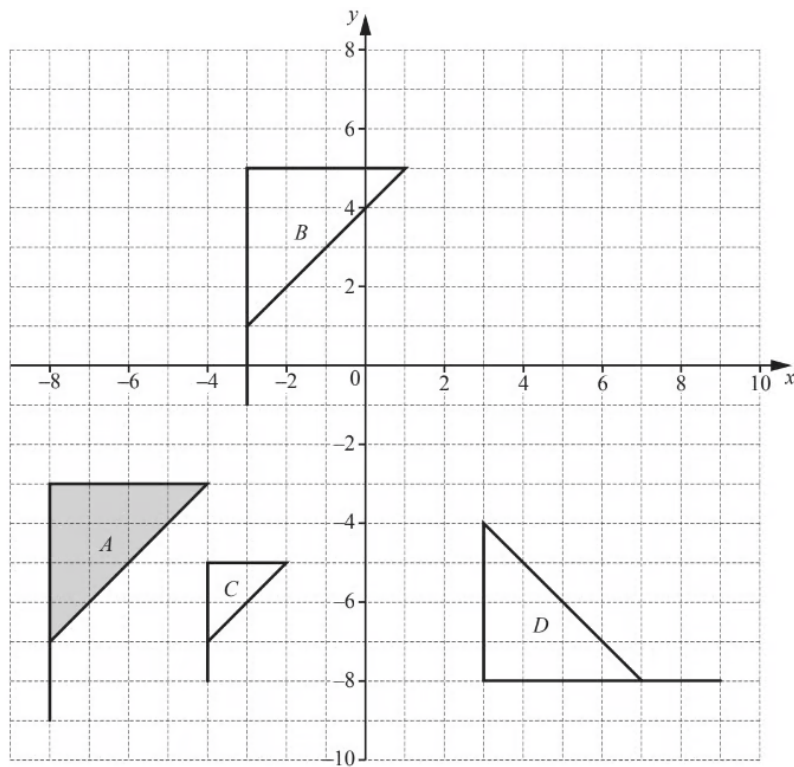
The line AB is transformed to the line PQ .

Describe fully the **single** transformation that maps the line AB onto the line PQ where P is the point $(-2, -6)$ and Q is the point $(-10, -16)$.

[3]

[3 marks]

Question 7

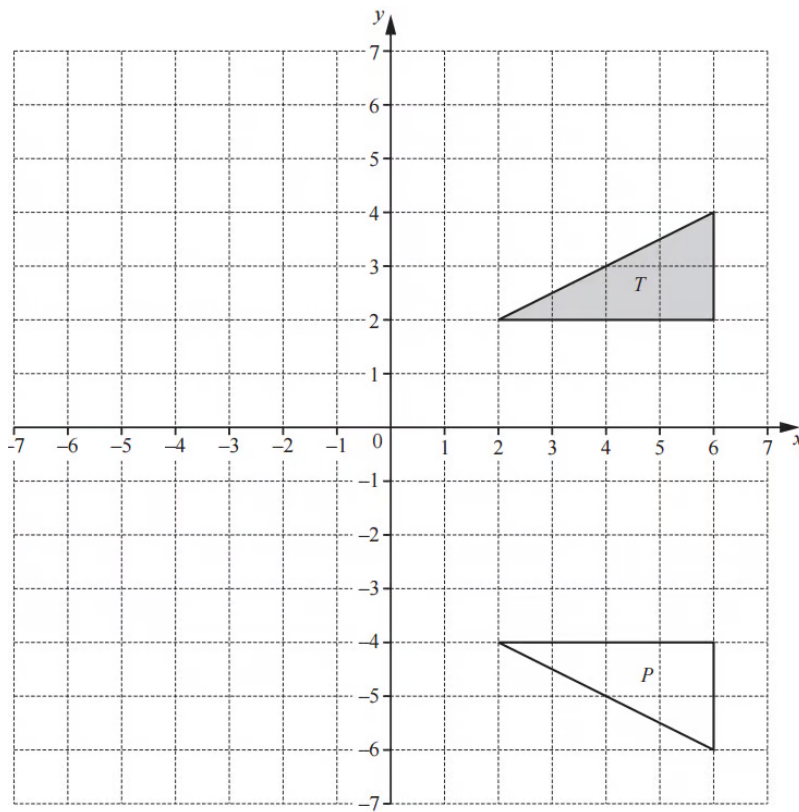


Describe fully the **single** transformation that maps flag A onto flag C,

[3]

[3 marks]

Question 8



Enlarge triangle *T* by scale factor $-\frac{1}{2}$ with centre (0, 0).

[2]

[2 marks]