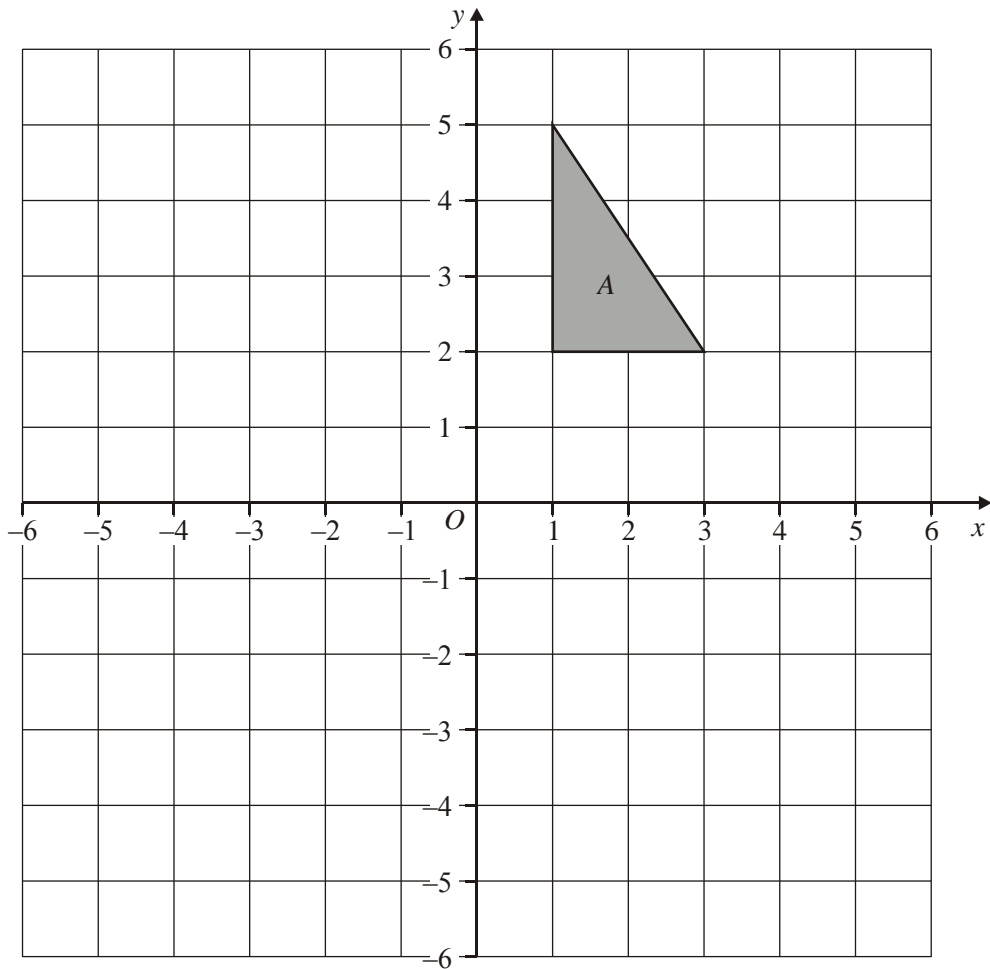


Translation, Enlargement, Rotation and Reflection (TERRY)

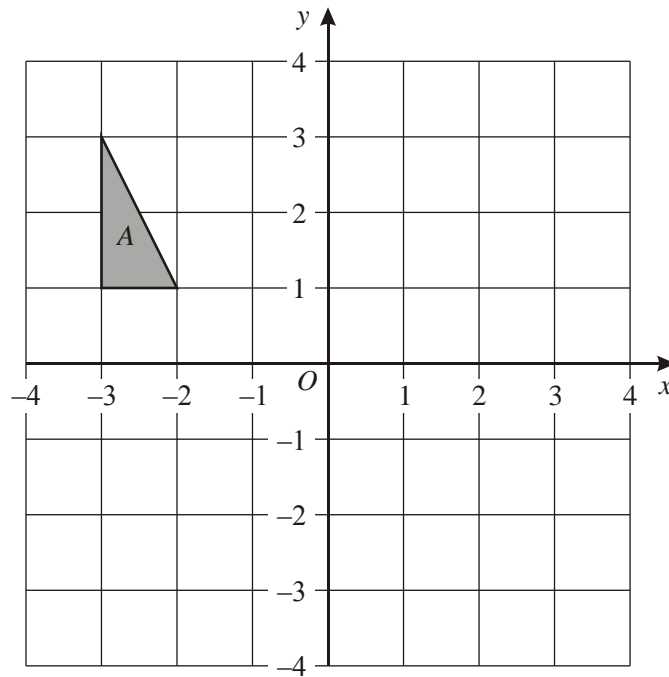
1. Triangle A has vertices (1,2), (1,5) and (3,2).



Draw the new position of triangle A after a rotation of 90° clockwise about the origin.

(Total 3 marks)

2. Triangle *A* is drawn on the grid below.



- (a) Reflect triangle *A* in the *x*-axis.
Label the triangle *B*.

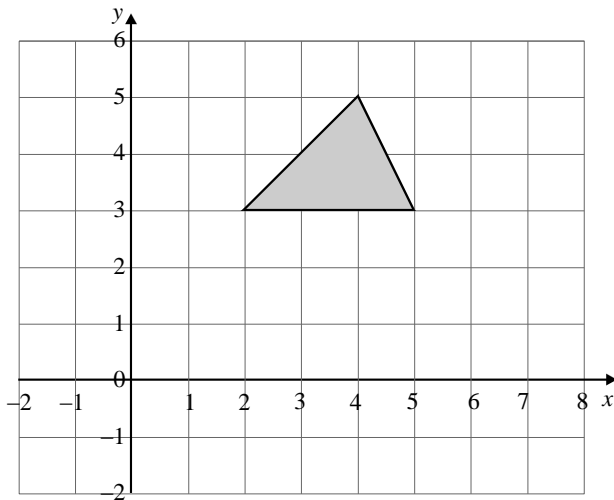
(1)

- (b) Rotate triangle *A* 90° clockwise about the origin *O*.
Label the triangle *C*.

(2)

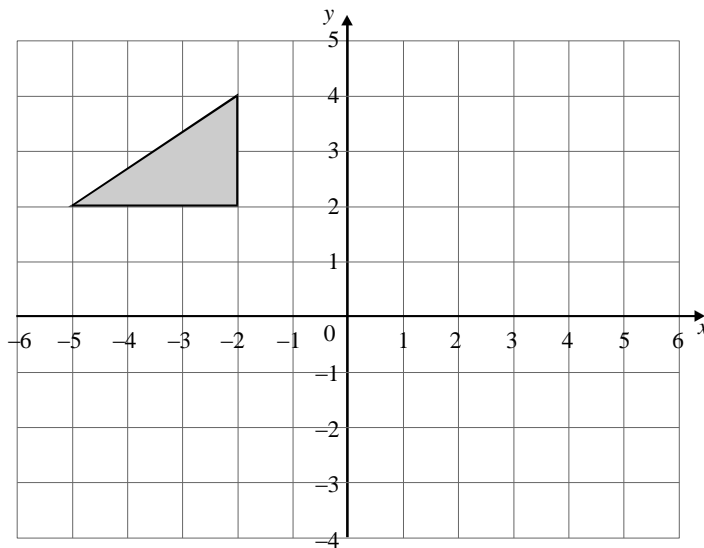
(Total 3 marks)

3. (a)



- (i) Draw the line $y = 2$ on the grid above. (1)
- (ii) Reflect the shaded triangle in the line $y = 2$. (1)

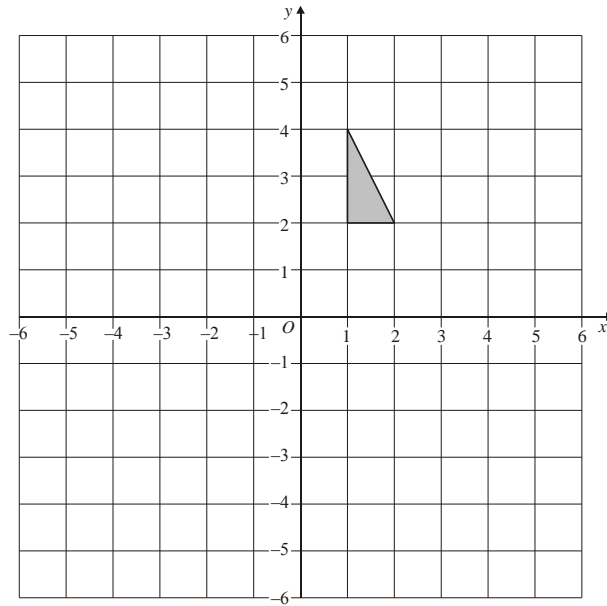
(b)



- (i) Translate the shaded triangle by the vector $\begin{pmatrix} 5 \\ -4 \end{pmatrix}$
Label this triangle C. (2)
- (ii) Rotate the shaded triangle through 90° clockwise about $(-1, 1)$
Label this triangle D. (2)

(Total 6 marks)

4.



- (a) Reflect the shaded triangle in the line $y = -x$.
Label this new triangle with the letter *A*.

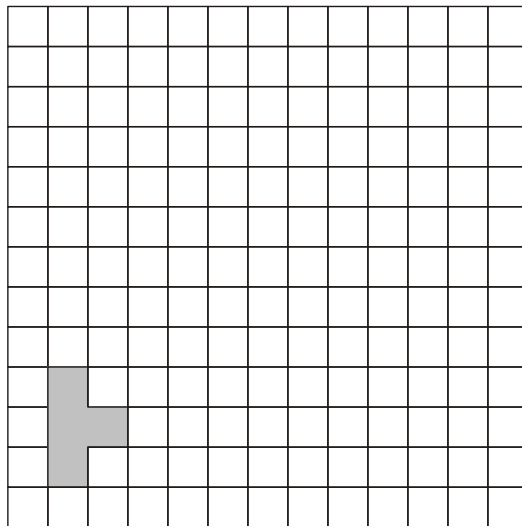
(2)

- (b) Rotate the original shaded triangle by a quarter-turn anticlockwise about (0,2).
Label this new triangle with the letter *B*.

(2)

(Total 4 marks)

5. (a) Enlarge the shaded shape by a scale factor of 3.



(2)

- (b) How many times bigger is the area of the enlarged shape than the area of the small shape?

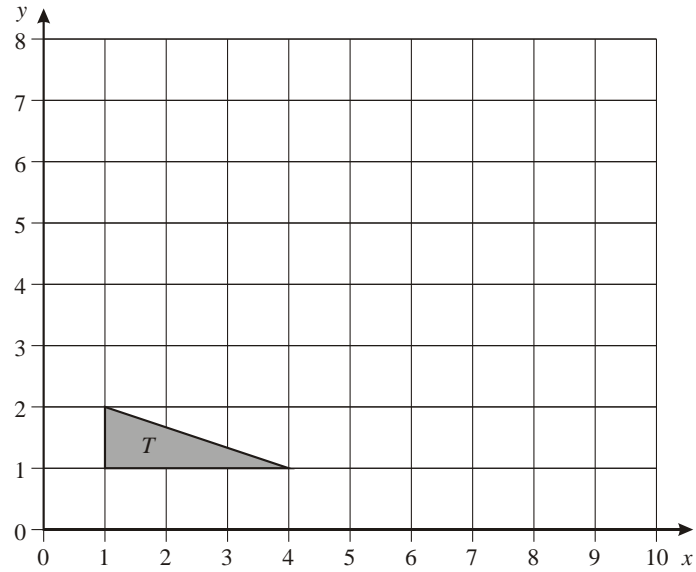
.....
.....

Answer

(2)

(Total 4 marks)

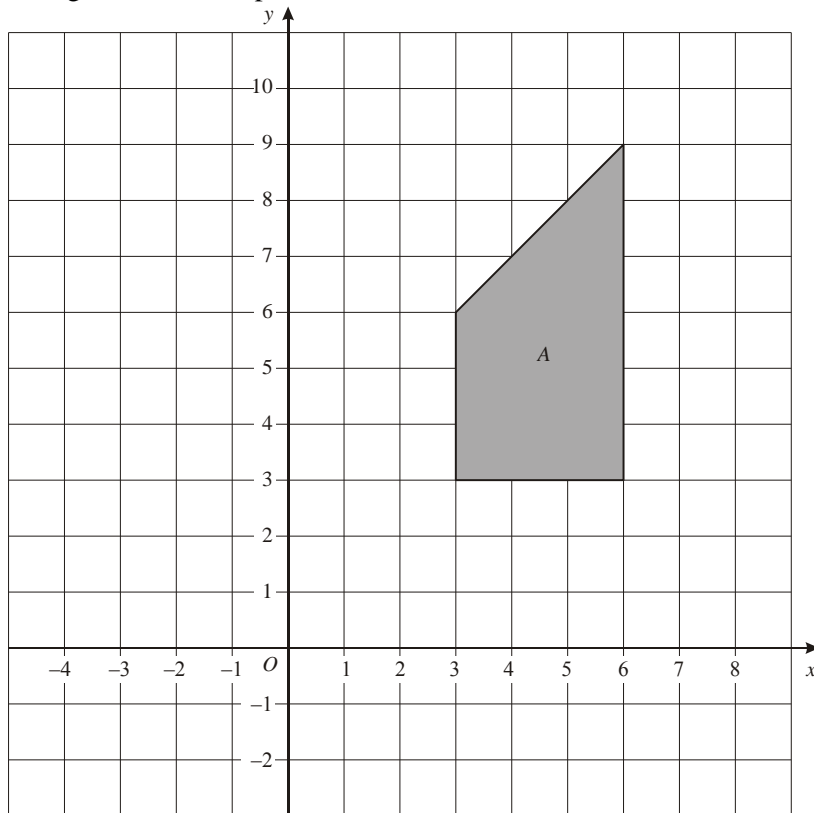
6. The vertices of triangle T are $(1, 1)$, $(1, 2)$ and $(4, 1)$.



Enlarge triangle T by scale factor 2, with $(0, 0)$ as the centre of enlargement.

(Total 3 marks)

7. The diagram shows shape

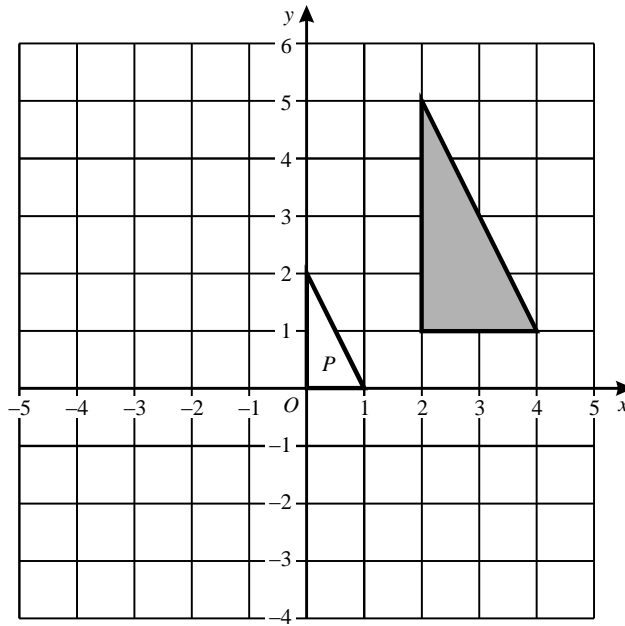


A.

Draw the enlargement of shape A with scale factor $\frac{1}{3}$ and centre of enlargement $(0,0)$.

(Total 2 marks)

8. Triangle P is an enlargement of the shaded triangle.



(a) What is the scale factor of the enlargement?

Answer

(1)

(b) What is the centre of enlargement?

Answer (.....,

(1)

(Total 2 marks)