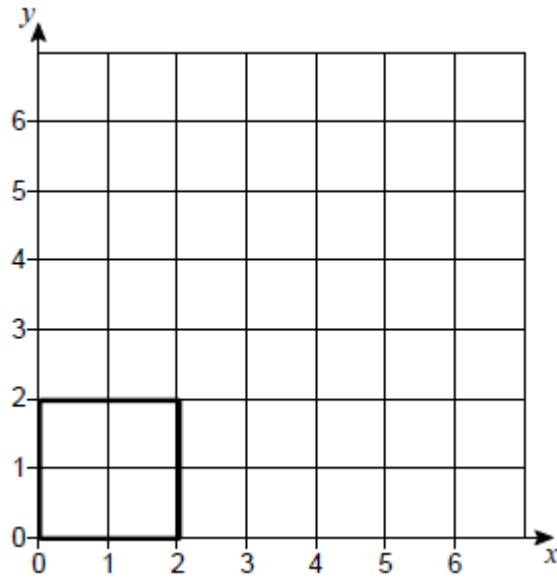


Q1.

Square $OABC$ is drawn on a centimetre grid.

O is $(0, 0)$ A is $(2, 0)$ B is $(2, 2)$ C is $(0, 2)$



- (a) $OABC$ is translated by the vector $\begin{pmatrix} 3 \\ 1 \end{pmatrix}$

Circle the number of invariant points on the perimeter of the square.

0 1 2 4

(1)

- (b) $OABC$ is enlarged, scale factor 2, centre $(0, 0)$

Circle the number of invariant points on the perimeter of the square.

0 1 2 4

(1)

- (c) $OABC$ is reflected in the line $y = x$

Circle the number of invariant points on the perimeter of the square.

0

1

2

4

(1)
(Total 3 marks)