

Name - _____

Start time - __ : __

End time - __ : __

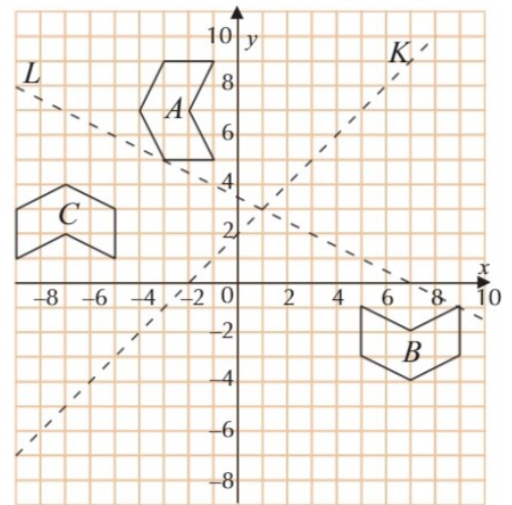
Solve the following

1. The points below are reflected in the line $y = x$. Find the coordinates of their reflections.

- | | |
|------------|-------------|
| a) (1, 2) | d) (-1, -3) |
| b) (3, 0) | e) (-2, -2) |
| c) (-2, 4) | |

2. Describe the reflection that would map:

- Shape A onto shape B.
 - Shape C onto shape A.
- a) Copy the diagram and reflect each of the shapes A, B and C in line K. Label them A_1 , B_1 , and C_1 , respectively.
- b) Give the points of invariance on shapes A, B or C when they are reflected in line L.



3. a) Copy the grid and shape A on the right and then:

- Reflect shape A in the x-axis and label it A_1 .
- Reflect shape A in the line $x = 3$ and label it A_2 .

b) For each reflection in part a), write down the coordinates of any points of A that are invariant.

c) Describe the reflection that maps shape A to shape U.

