

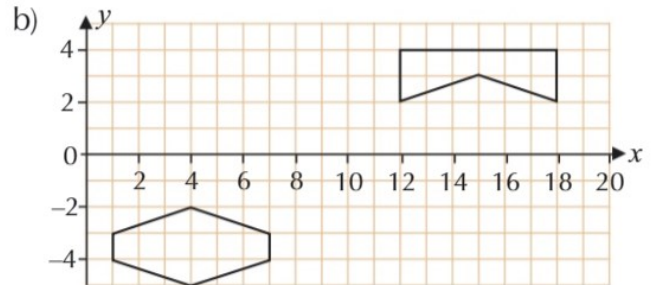
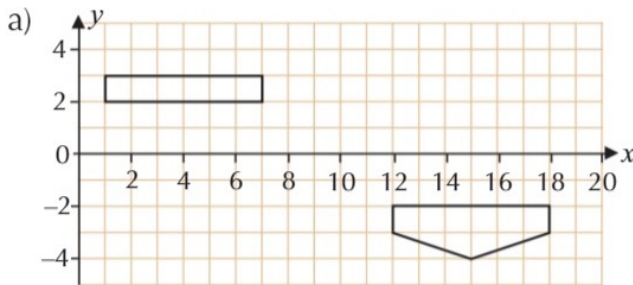
Name - _____

Start time - __ : __

End time - __ : __

Solve the following

1. Copy each of the diagrams below and reflect the shapes in the x-axis.



2. Copy the diagram shown on the right.

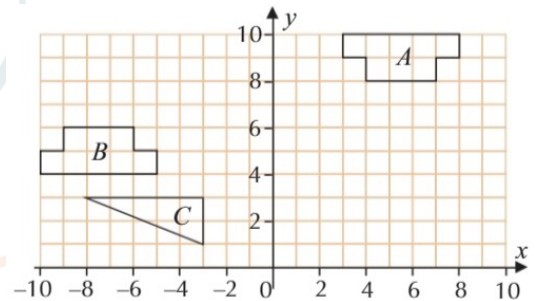
a) Reflect shape A in the line $x = 2$. Label the image A_1 .

b) Reflect shape B in the line $x = -1$. Label the image B_1 .

c) Reflect shape C in the line $x = 1$. Label the image C_1 .

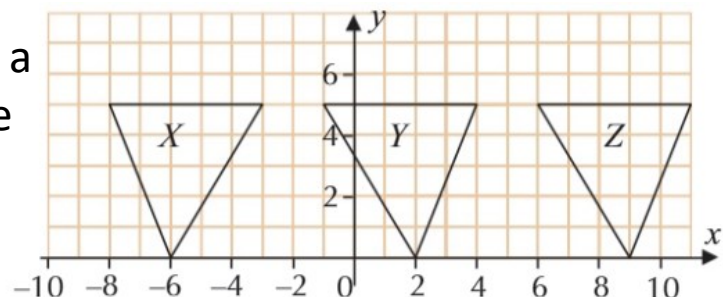
d) Shape B, is the reflection of shape A in which mirror line?

e) Give the coordinates of the two invariant points on Shape B when it is reflected in the line $x = -7$.



3. a) Describe the reflection that would take triangle X to the triangle Y

b) The image of triangle Z under a single reflection is either triangle X or triangle Y. Determine which and describe the reflection.



c) Which points of triangle X are invariant if it is reflected in the line $y = 5$?