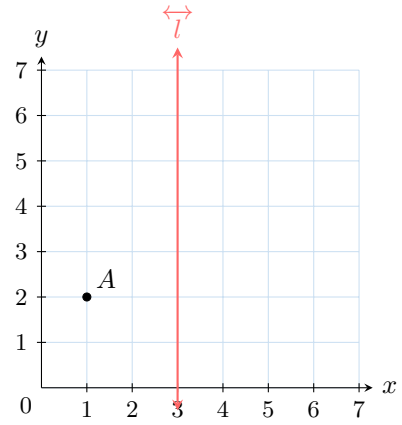
REFLECTION

A DEFINITIONS

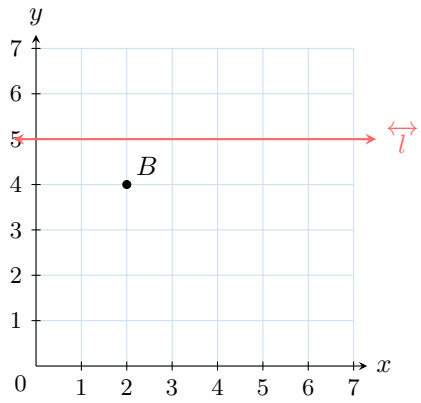
A.1 FINDING THE IMAGE OF A POINT

Ex 1: Find the coordinates of the image of point A under a reflection over line $\overleftrightarrow{l}$.



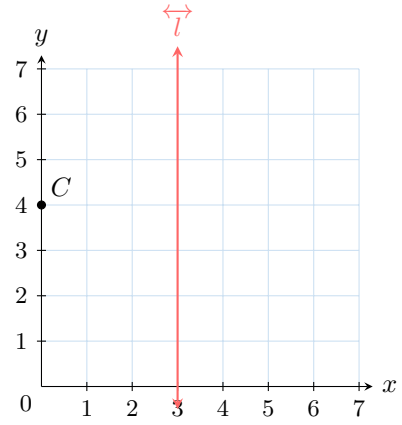
$A'($ ☐ , ☐ $)$

Ex 2: Find the coordinates of the image of point B under a reflection over line $\overleftrightarrow{l}$.



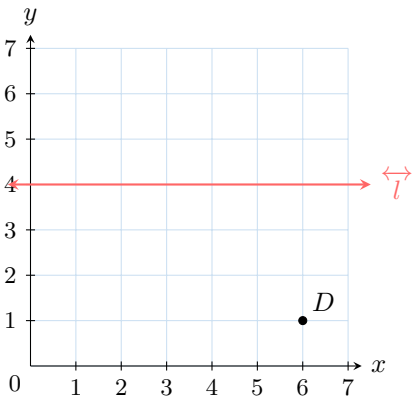
$B'($ ☐ , ☐ $)$

Ex 3: Find the coordinates of the image of point C under a reflection over line $\overleftrightarrow{l}$.



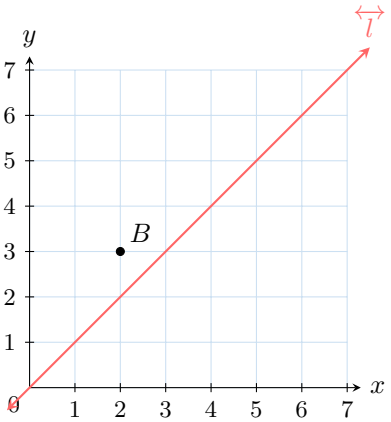
$C'($ ☐ , ☐ $)$

Ex 4: Find the coordinates of the image of point D under a reflection over line $\overleftrightarrow{l}$.



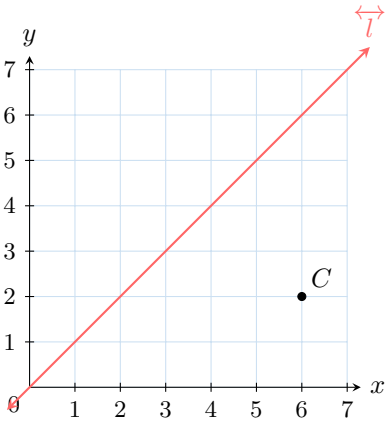
$D'($ ☐ , ☐ $)$

Ex 5: Find the coordinates of the image of point B under a reflection over the line $\overleftrightarrow{l}$.



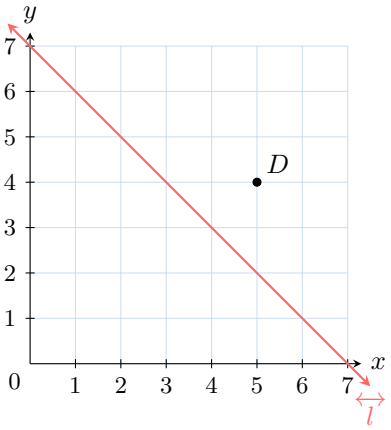
$B'($ ☐ , ☐ $)$

Ex 6: Find the coordinates of the image of point C under a reflection over the line $\overleftrightarrow{l}$.



$C'($ ☐ , ☐ $)$

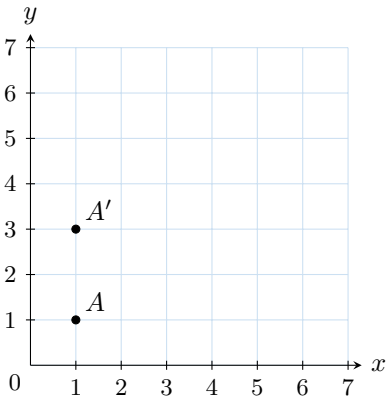
Ex 7: Find the coordinates of the image of point D under a reflection over the line $\overleftrightarrow{l}$.



$D'($ ☐ , ☐ $)$

A.2 FINDING THE LINE

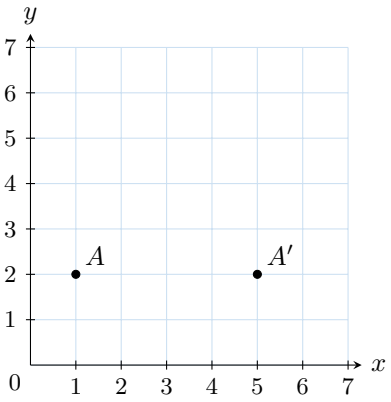
Ex 8: The point A' is the image of point A under a reflection over line $\overleftrightarrow{BC}$.



Find the coordinates of the points B and C

$B(0,$ ☐ $)$ and $C(6,$ ☐ $)$

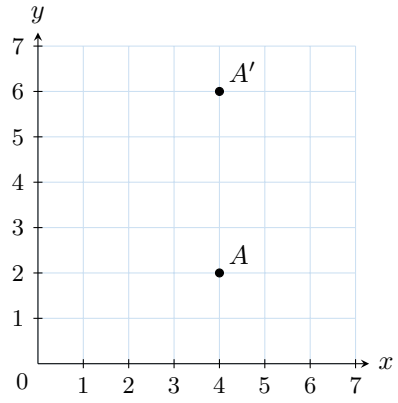
Ex 9: The point A' is the image of point A under a reflection over line $\overleftrightarrow{BC}$.



Find the coordinates of the points B and C

$B($ ☐ $, 1)$ and $C($ ☐ $, 4)$

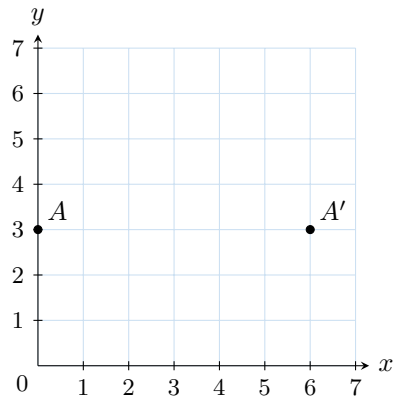
Ex 10: The point A' is the image of point A under a reflection over line $\overleftrightarrow{BC}$.



Find the coordinates of the points B and C

$B(1,$ ☐ $)$ and $C(7,$ ☐ $)$

Ex 11: The point A' is the image of point A under a reflection over line $\overleftrightarrow{BC}$.

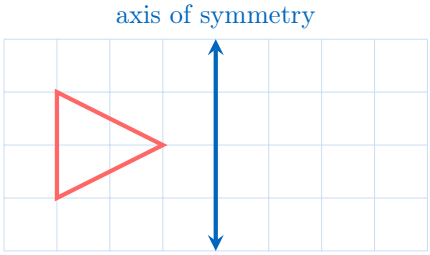


Find the coordinates of the points B and C

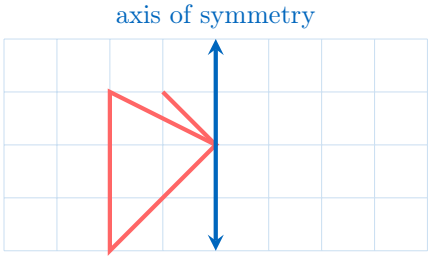
$B($ ☐ $, 1)$ and $C($ ☐ $, 5)$

A.3 DRAWING MIRROR FIGURES

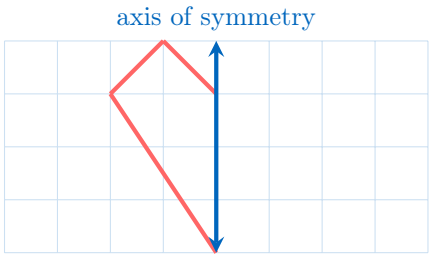
Ex 12: Draw the mirror figure.



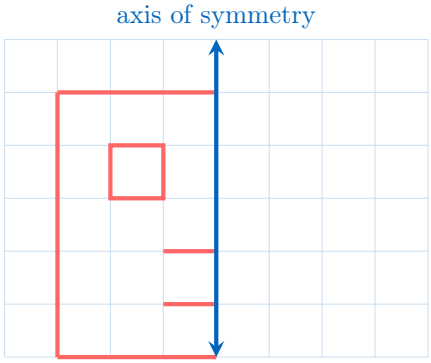
Ex 13: Draw the mirror figure.



Ex 14: Draw the mirror figure.

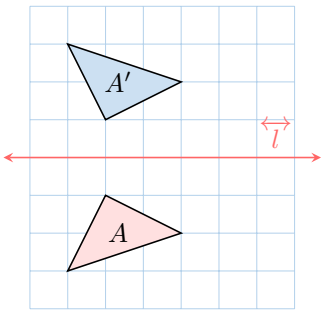


Ex 15: Draw the mirror figure.



A.4 IDENTIFYING REFLECTIONS

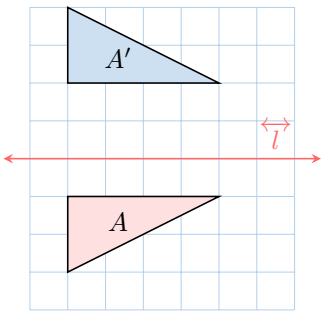
MCQ 16: Is A' the image of A under the reflection over line $\overleftrightarrow{l}$?



☐ Yes

☐ No

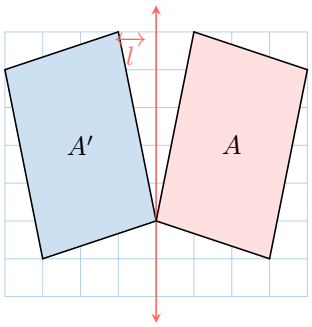
MCQ 17: Is A' the image of A under the reflection over line $\overleftrightarrow{l}$?



☐ Oui

☐ Non

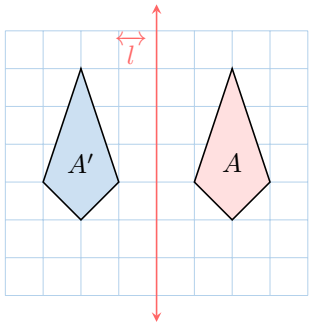
MCQ 18: Is A' the image of A under the reflection over line $\overleftrightarrow{l}$?



☐ Yes

☐ No

MCQ 19: Is A' the image of A under the reflection over line $\overleftrightarrow{l}$?



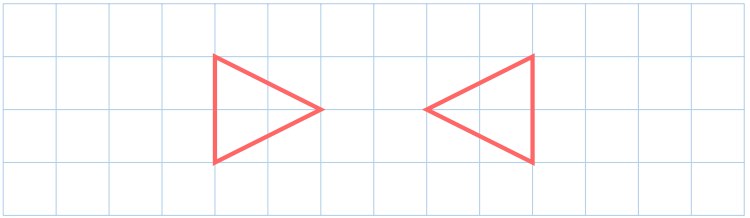
☐ Yes

☐ No

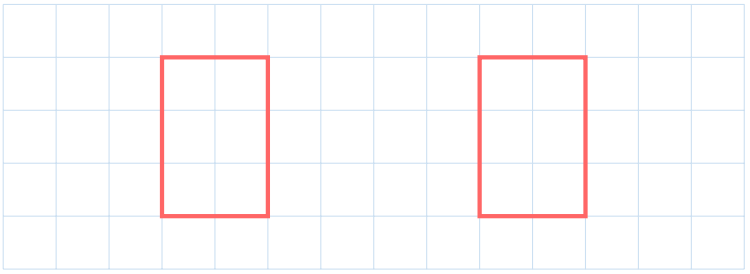
B AXIS OF SYMMETRY

B.1 DRAWING THE AXIS OF SYMMETRY

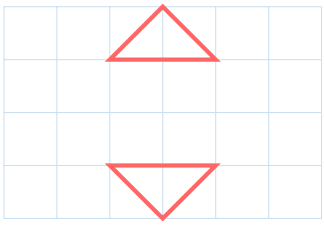
Ex 20: Draw the axis of symmetry.



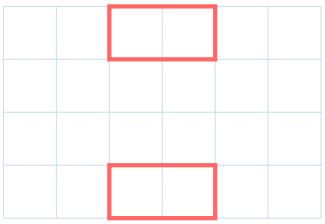
Ex 21: Draw the axis of symmetry.



Ex 22: Draw the axis of symmetry.

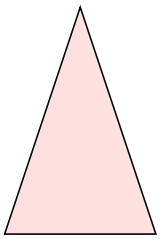


Ex 23: Draw the axis of symmetry.



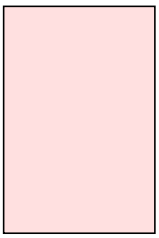
B.2 COUNTING AXES OF SYMMETRY

Ex 24: Count the number of axes of symmetry for the isosceles triangle shown below.



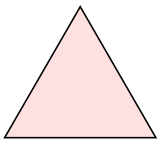
☐ axis of symmetry

Ex 25: Count the number of axes of symmetry for the rectangle shown below.



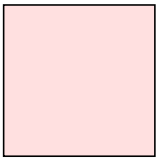
☐ axes of symmetry

Ex 26: Count the number of axes of symmetry for the equilateral triangle shown below.



☐ axes of symmetry

Ex 27: Count the number of axes of symmetry for the square shown below.



☐ axes of symmetry