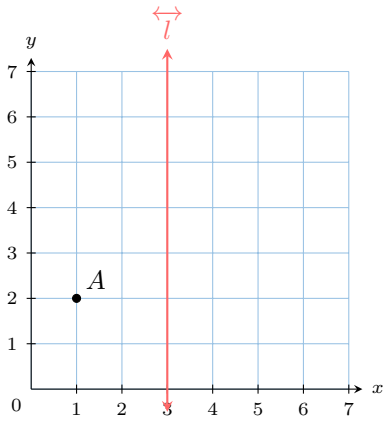
# REFLECTION

## A DEFINITIONS

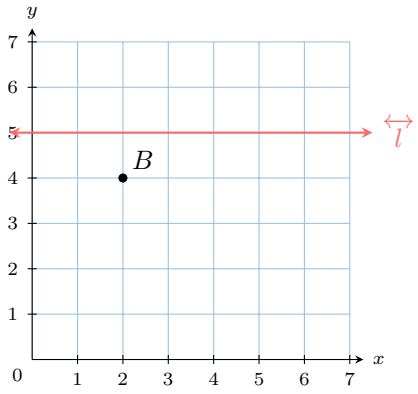
### A.1 FINDING THE IMAGE OF A POINT

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



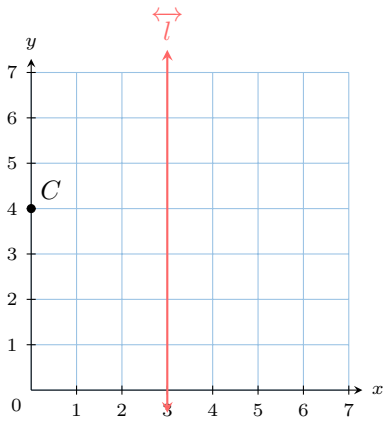

$A'($ ☐ , ☐ $)$

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



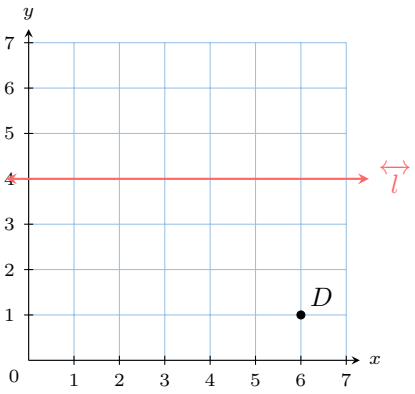

$B'($ ☐ , ☐ $)$

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



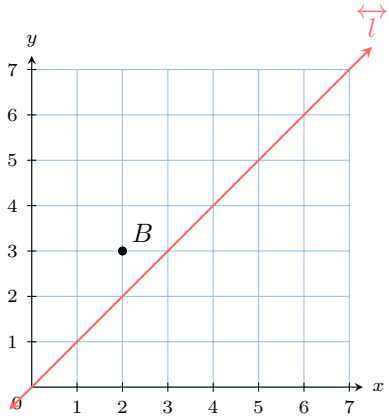

$C'($ ☐ , ☐ $)$

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



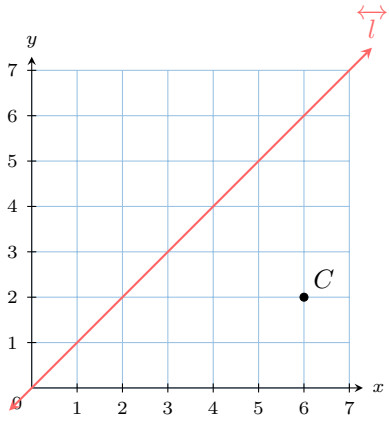

$D'($ ☐ , ☐ $)$

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



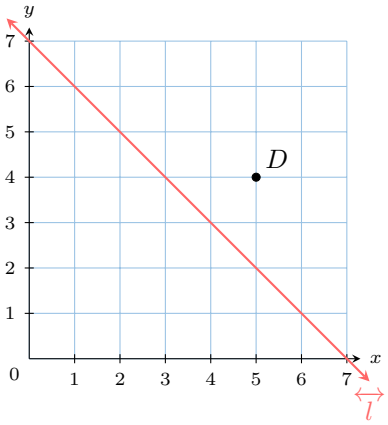

$B'($ ☐ , ☐ $)$

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




$C'($ ☐ , ☐ $)$

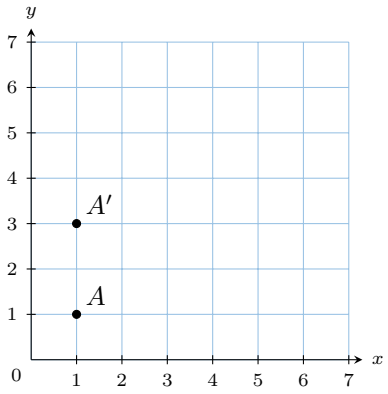
**Ex 7:** Find the coordinates of the image of point $D$ under a reflection over the line $\overleftrightarrow{l}$.




$D'(\square,\square)$

## A.2 FINDING THE LINE

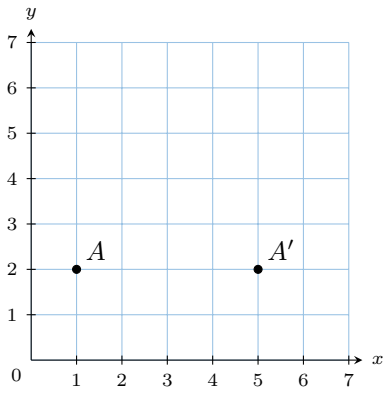
**Ex 8:** The point $A'$ is the image of point $A$ under a reflection over line $\overleftrightarrow{BC}$.




Find the coordinates of the points $B$ and $C$

$B(0,\square)$ and $C(6,\square)$

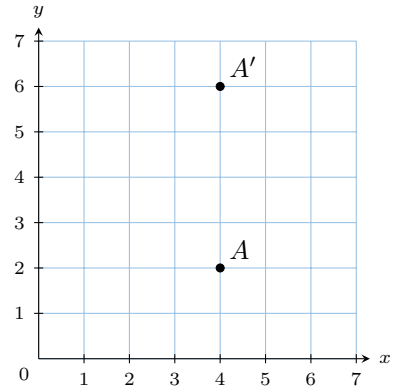
**Ex 9:** The point $A'$ is the image of point $A$ under a reflection over line $\overleftrightarrow{BC}$.




Find the coordinates of the points $B$ and $C$

$B(\square,1)$ and $C(\square,4)$

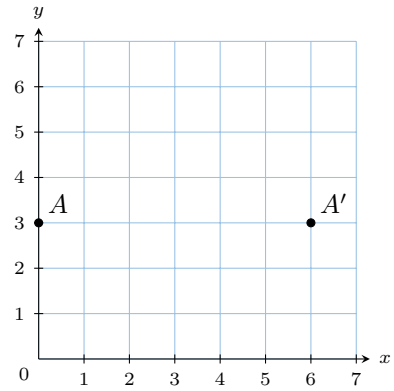
**Ex 10:** The point $A'$ is the image of point $A$ under a reflection over line $\overleftrightarrow{BC}$.




Find the coordinates of the points $B$ and $C$

$B(1,\square)$ and $C(7,\square)$

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

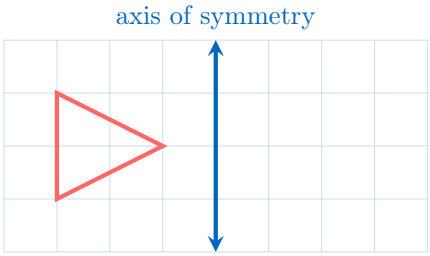



Find the coordinates of the points $B$ and $C$

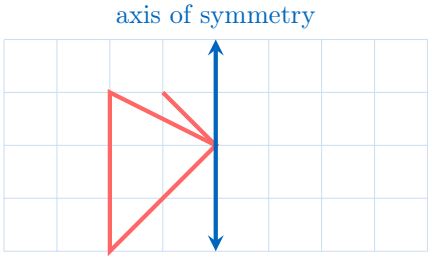
$B(\square,1)$ and $C(\square,5)$

## A.3 DRAWING MIRROR FIGURES

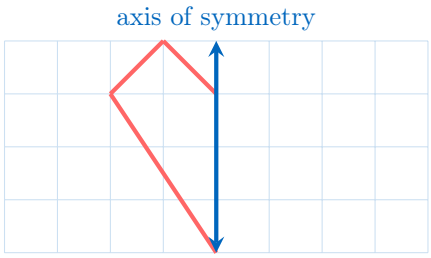
**Ex 12:** Draw the mirror figure.



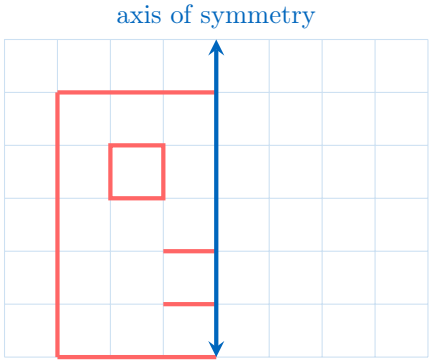

**Ex 13:** Draw the mirror figure.




**Ex 14:** Draw the mirror figure.

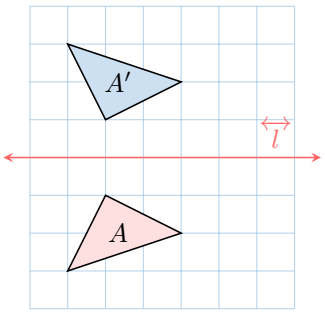



**Ex 15:** Draw the mirror figure.




### A.4 IDENTIFYING REFLECTIONS

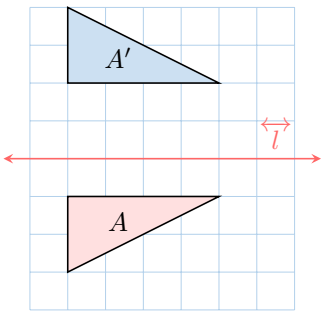
**MCQ 16:** Is $A'$ the image of $A$ under the reflection over line $\overleftrightarrow{l}$?




☐ Yes

☐ No

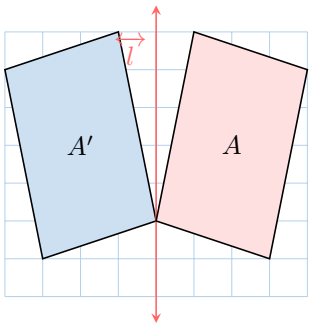
**MCQ 17:** Is $A'$ the image of $A$ under the reflection over line $\overleftrightarrow{l}$?




☐ Oui

☐ Non

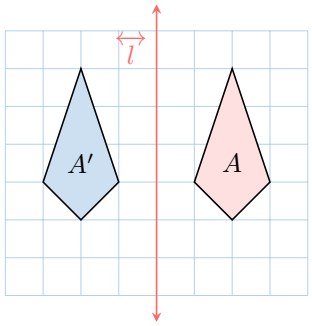
**MCQ 18:** Is $A'$ the image of $A$ under the reflection over line $\overleftrightarrow{l}$?




☐ Yes

☐ No

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



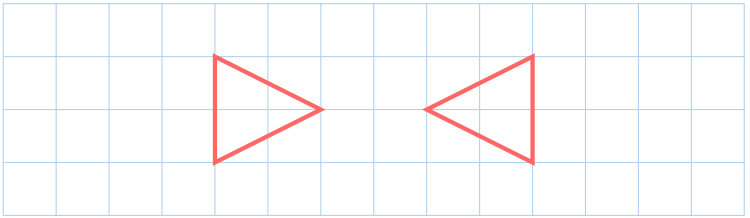

☐ Yes

☐ No

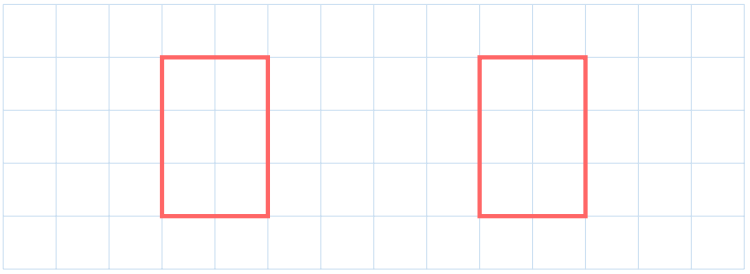
## B AXIS OF SYMMETRY

### B.1 DRAWING THE AXIS OF SYMMETRY

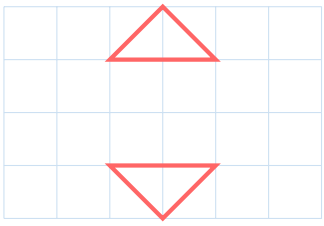
**Ex 20:** Draw the axis of symmetry.



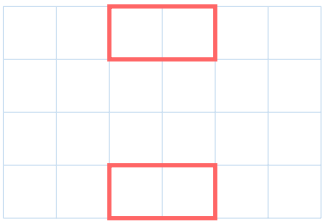
**Ex 21:** Draw the axis of symmetry.



**Ex 22:** Draw the axis of symmetry.

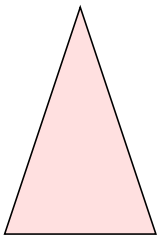


**Ex 23:** Draw the axis of symmetry.



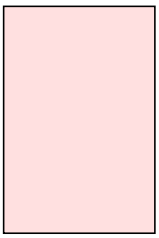
## B.2 COUNTING AXES OF SYMMETRY

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



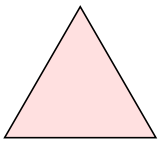
☐ axis of symmetry

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



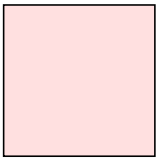
☐ axes of symmetry

**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