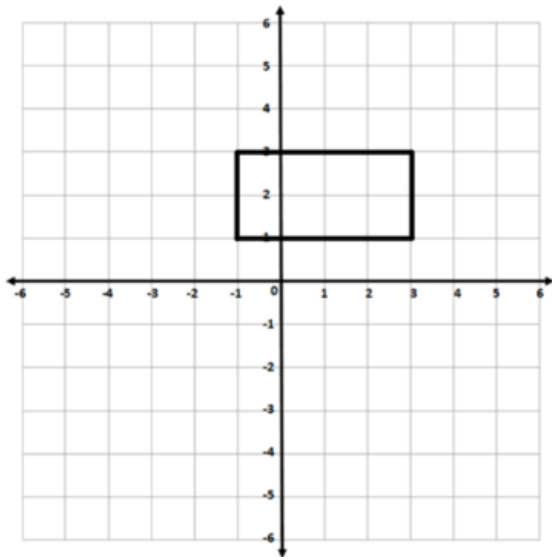


LO: to reason about reflection

<https://classroom.thenational.academy/lessons/to-reason-about-reflection/>

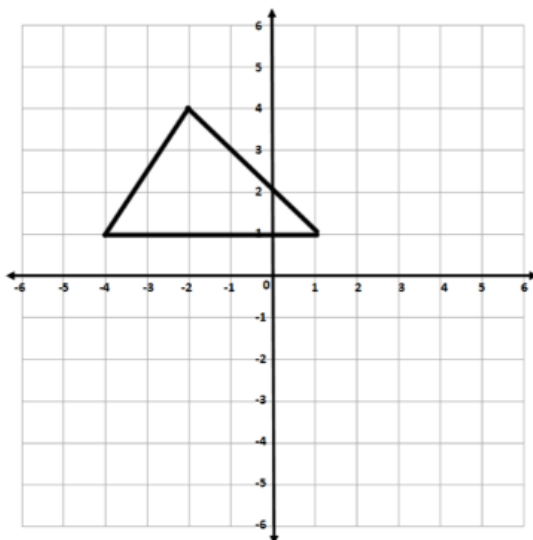
You do not need to print these pages. Answers can either be recorded in your work book or on a piece of paper. The following questions are also included in the web link.

A rectangle has vertices in the following positions, $(-1,3)$, $(-1,1)$, $(3,3)$ and $(3,1)$. When it is reflected in the x -axis, what are the coordinates?



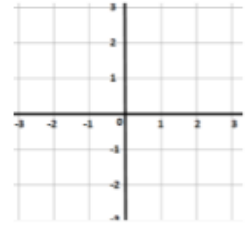
- $(1,-3)$, $(1,-1)$, $(-3,-3)$ and $(-3,-1)$
- $(-1,-3)$, $(-1,-1)$, $(3,-3)$ and $(3,-1)$
- None of the above

A triangle has vertices in the following positions $(-2,4)$, $(-4, 1)$ and $(1,1)$. When it is reflected in the x -axis, what are the coordinates?



- $(-2,-4)$, $(-4,-1)$ and $(1,-1)$
- $(2,-4)$, $(4,-1)$ and $(1,-1)$
- None of the above

Independent Task



Task 1

A rectangle has vertices in the following positions. It is reflected in the **y-axis**. What are its new coordinates?

Original	Reflected
$(-4, 2)$	$(_, _)$
$(-4, 1)$	$(_, _)$
$(-1, 2)$	$(_, _)$
$(-1, 1)$	$(_, _)$

Task 2

A triangle has vertices in the following positions. It is reflected in the **x-axis**.

Original	Reflected
$(0, -3)$	$(_, _)$
$(-1, -5)$	$(_, _)$
$(_, _)$	$(_, _)$

Task 3

A square has been reflected along the X axis. What is missing?

Original	Reflected
$(-5, \text{😊})$	$(-5, 1)$
$(-5, -3)$	$(\text{😊}, 3)$
$(-3, -3)$	$(-3, 3)$
$(\text{😊}, -1)$	$(-3, 1)$