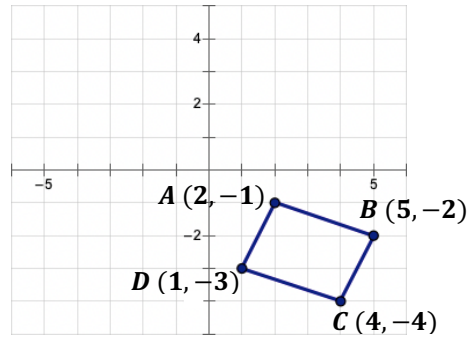


T.2: Reflection

Jaxon reflects the quadrilateral over the y-axis. Maxine reflects the quadrilateral over the x-axis.

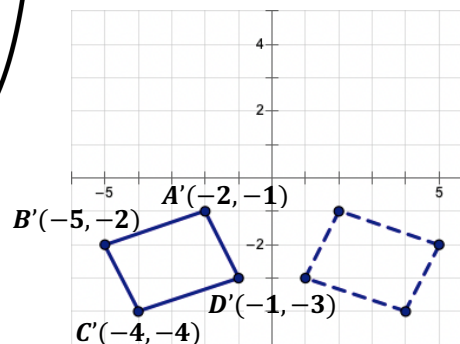
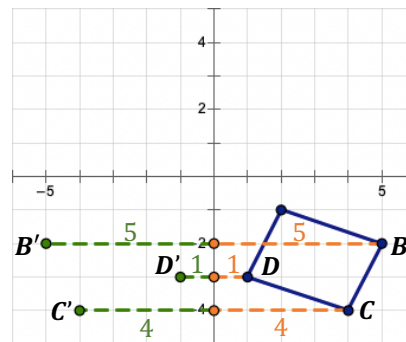
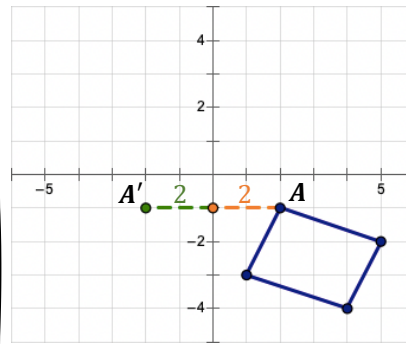


Jaxon's "Reflection Over the Y-Axis" Method

To reflect the quadrilateral across the y-axis, I count how far point A is to the right of the y-axis. Then to find the reflected point, I move point A' that far left of the y-axis.

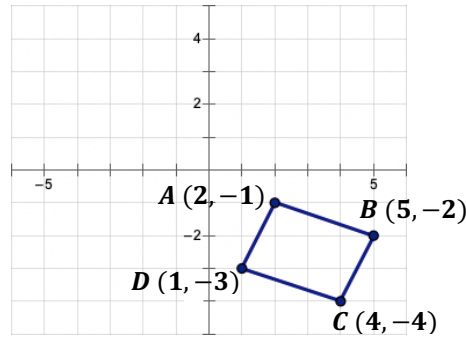
I do the same thing for points B, C, & D.

Then, I plot the points of my reflected figure.



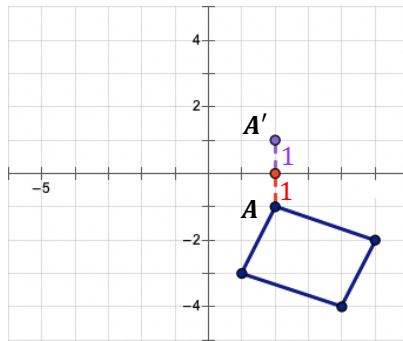
T.2: Reflection

Jaxon reflects the quadrilateral over the y-axis. Maxine reflects the quadrilateral over the x-axis.

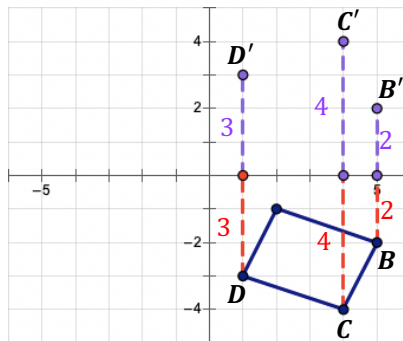


Jaxon's "Reflection Over the Y-Axis" Method

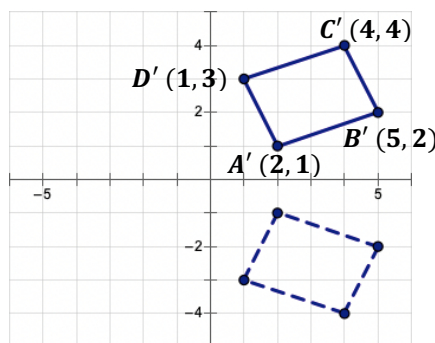
Maxine's "Reflection Over the X-Axis" Method



To reflect the quadrilateral across the x-axis, I count how far point A is **below the x-axis**. Then to find the reflected point, I move point A' that far **above the x-axis**.



I use the same method to reflect points B, C, & D.

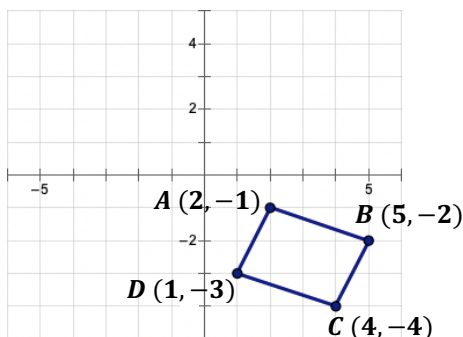


This is my quadrilateral reflected over the x-axis.



T.2: Reflection

Jaxon reflects the quadrilateral over the y-axis. Maxine reflects the quadrilateral over the x-axis.



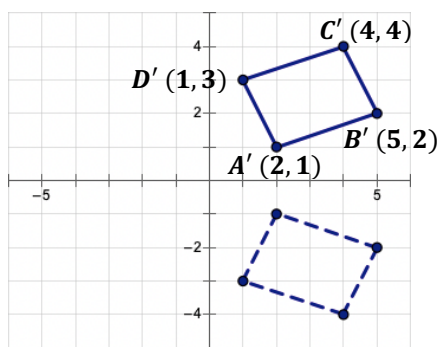
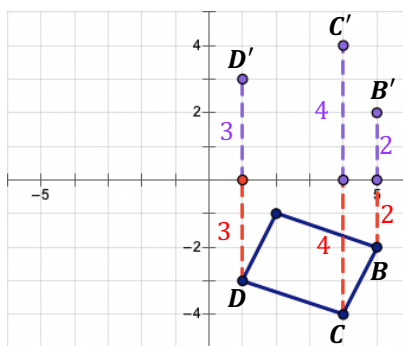
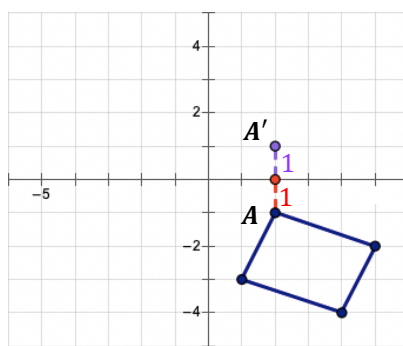
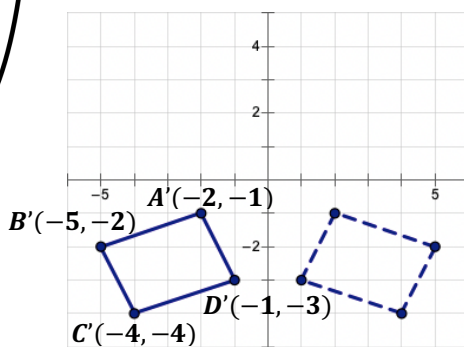
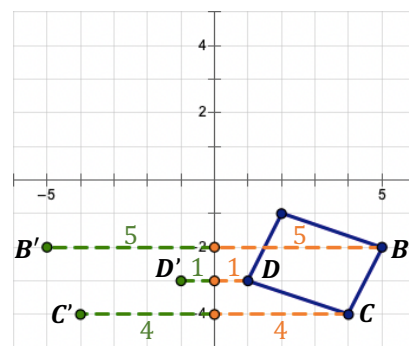
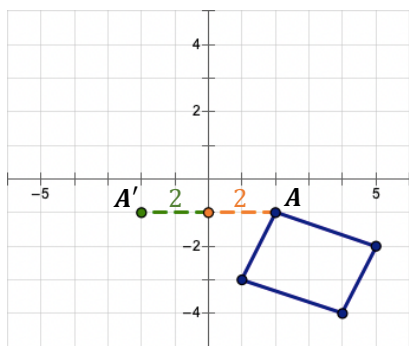
Jaxon's "Reflection Over the Y-Axis" Method

Maxine's "Reflection Over the X-Axis" Method

To reflect the quadrilateral across the y-axis, I count how far point A is to the right of the y-axis. Then to find the reflected point, I move point A' that far left of the y-axis.

I do the same thing for points B, C, & D.

Then, I plot the points of my reflected figure.



To reflect the quadrilateral across the x-axis, I count how far point A is below the x-axis. Then to find the reflected point, I move point A' that far above the x-axis.

I use the same method to reflect points B, C, & D.

This is my quadrilateral reflected over the x-axis.

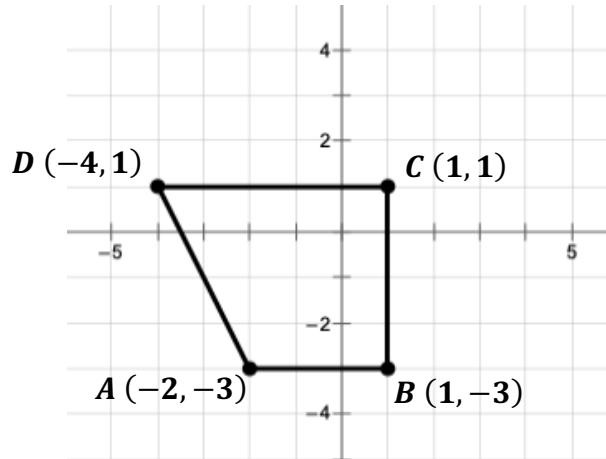


T.2: Reflection

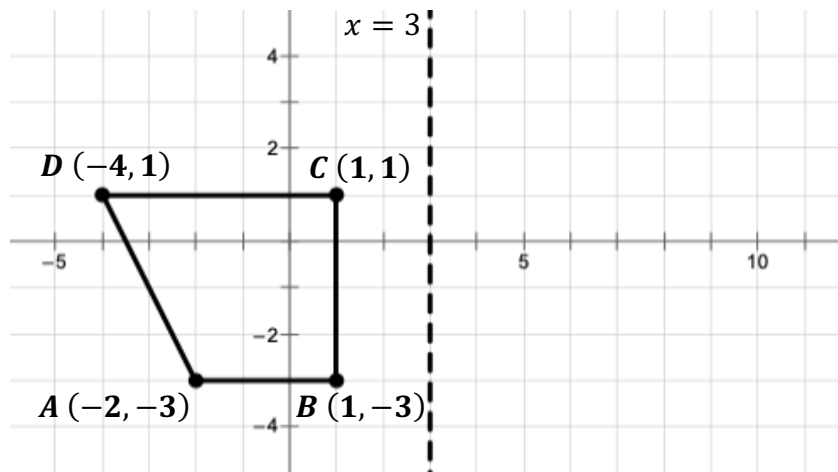
1) What are the similarities and differences between Jaxon and Maxine's methods?

Similarities	Differences

2) Reflect trapezoid  $ABCD$  over the x-axis. Draw and label the coordinates of your reflected figure.



3) Reflect trapezoid  $ABCD$  over the line  $x = 3$ . Draw and label the coordinates of your reflected figure.



4) Explain what happens to the coordinates of a figure when you reflect it over:

a) the x-axis?

b) the y-axis?

T.2: Reflection

Jaxon reflects the quadrilateral over the y-axis. The reflected quadrilateral is shown in red. Jaxon reflects the quadrilateral over the x-axis.

When I reflected over the x-axis, my y-values changed. When Jaxon reflected over the y-axis, his x-values changed.

I wonder if there are lines of reflection where both values change.

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thod

To reflect the quadrilateral across the x-axis, I count how far point A is below the x-axis. Then to find the reflected point, I move point A' that far above the x-axis.

I use the same method to reflect points B, C, & D.

Then, I plot the points of my reflected figure.

This is my quadrilateral reflected over the x-axis.

