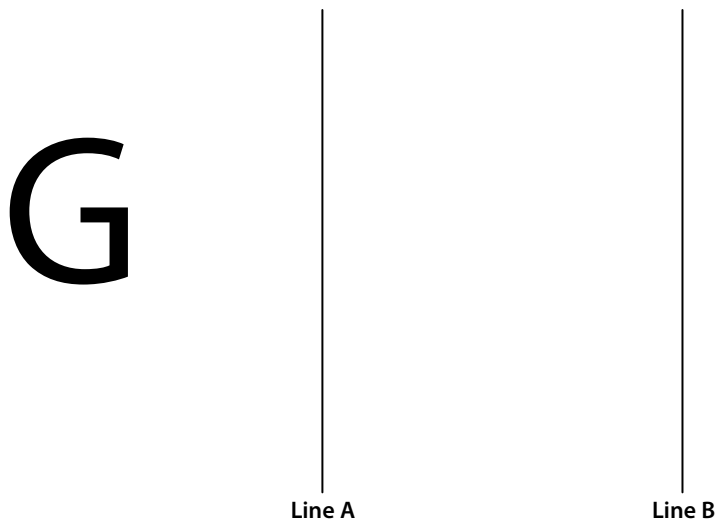


* Plane Geometry | Transformations

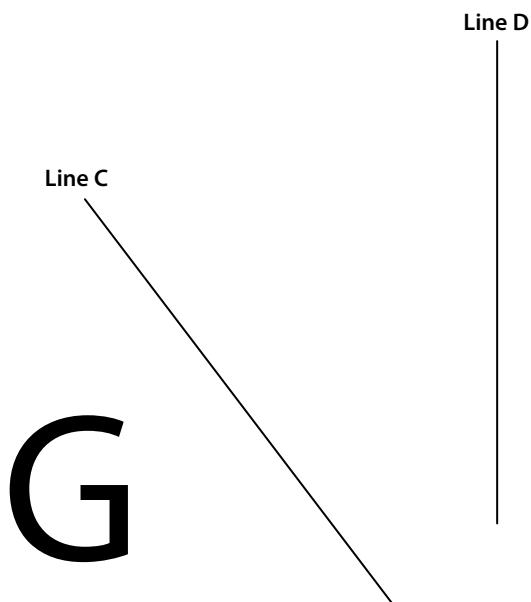
There is an interesting and unusual connection between reflection and the other two kinds of transformation (translation and rotation). See if you can work it out by completing the tasks below!

1. Reflect the letter G below across line A, then reflect the new figure across line B.



Conclusion: 2 reflections across parallel lines is equivalent to:

2. Reflect the letter G below across line C, then reflect the new figure across line D.

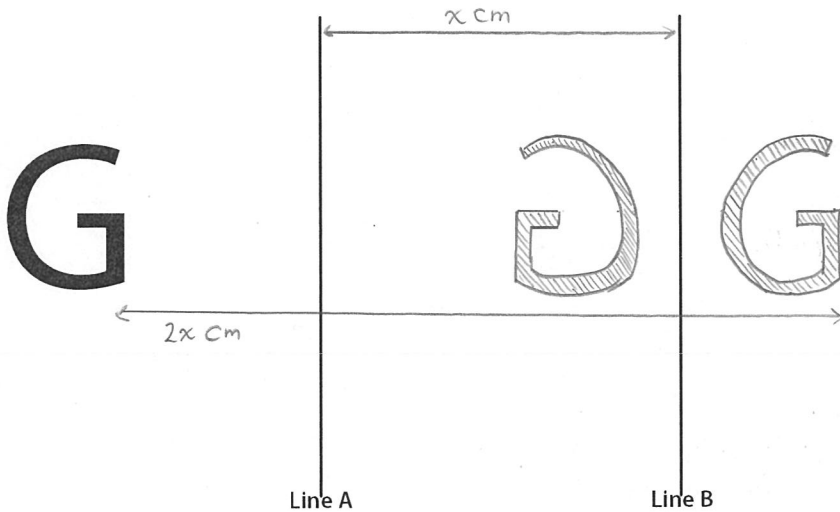


Conclusion: 2 reflections across non-parallel lines is equivalent to:

* Plane Geometry | Transformations

There is an interesting and unusual connection between reflection and the other two kinds of transformation (translation and rotation). See if you can work it out by completing the tasks below!

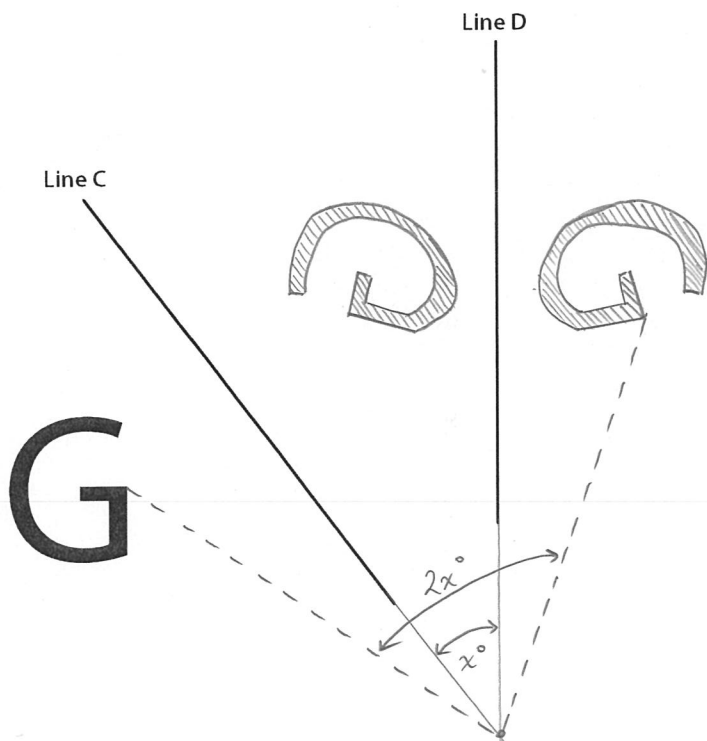
1. Reflect the letter G below across line A, then reflect the new figure across line B.



Conclusion: 2 reflections across parallel lines is equivalent to:

translation, double the distance between the lines.

2. Reflect the letter G below across line C, then reflect the new figure across line D.



Conclusion: 2 reflections across non-parallel lines is equivalent to:

*rotation about the point where the lines meet,
by double the angle formed between the lines.*