

Mathematics

**Exploring horizontal and vertical lines -  
Downloadable resource.  
Lesson 8 of 8.**

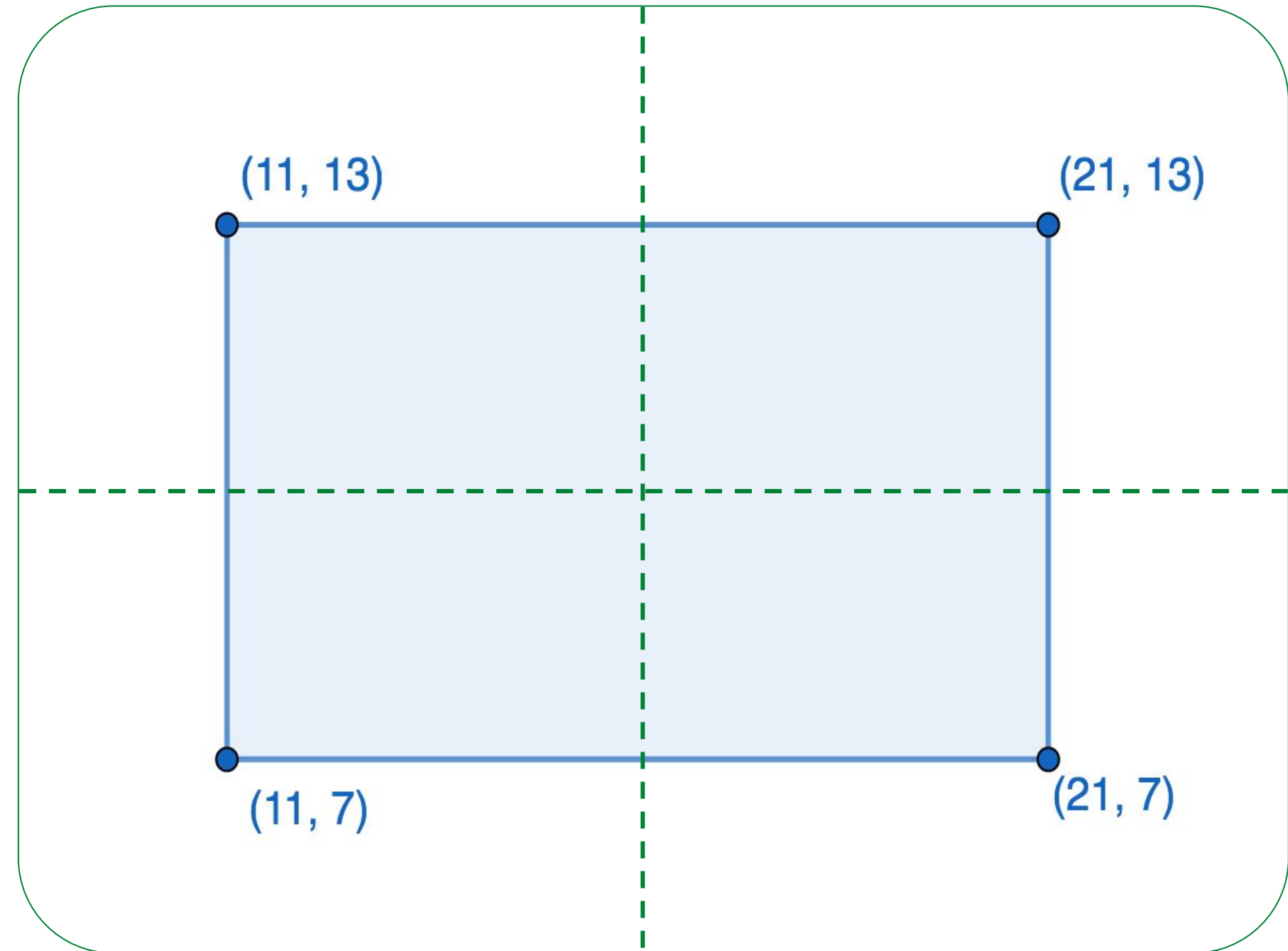
Dr Rim Saada



# Try this

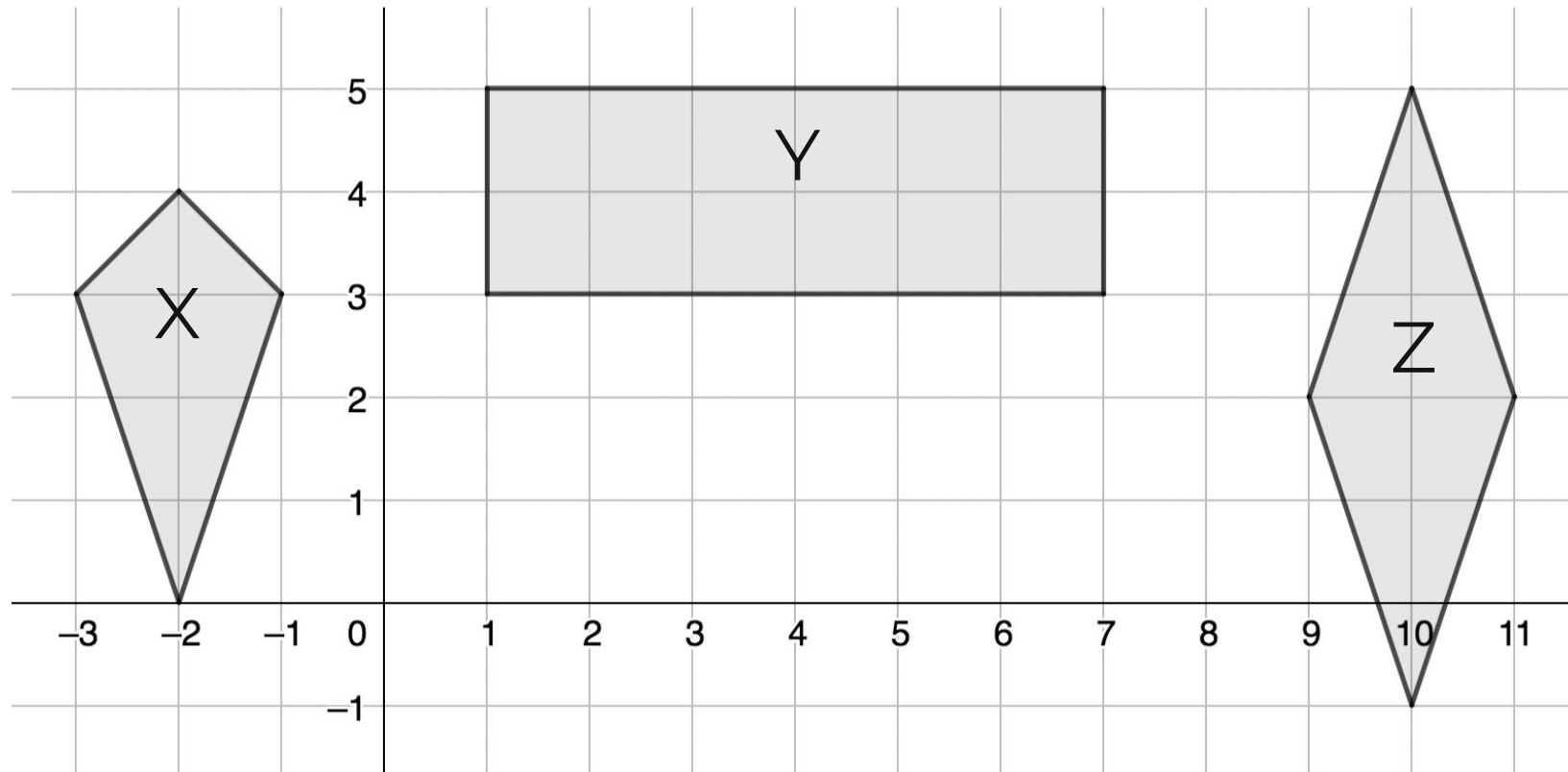
What can you tell me about this diagram?

What are the equations of the lines of symmetry, in the rectangle on the right?

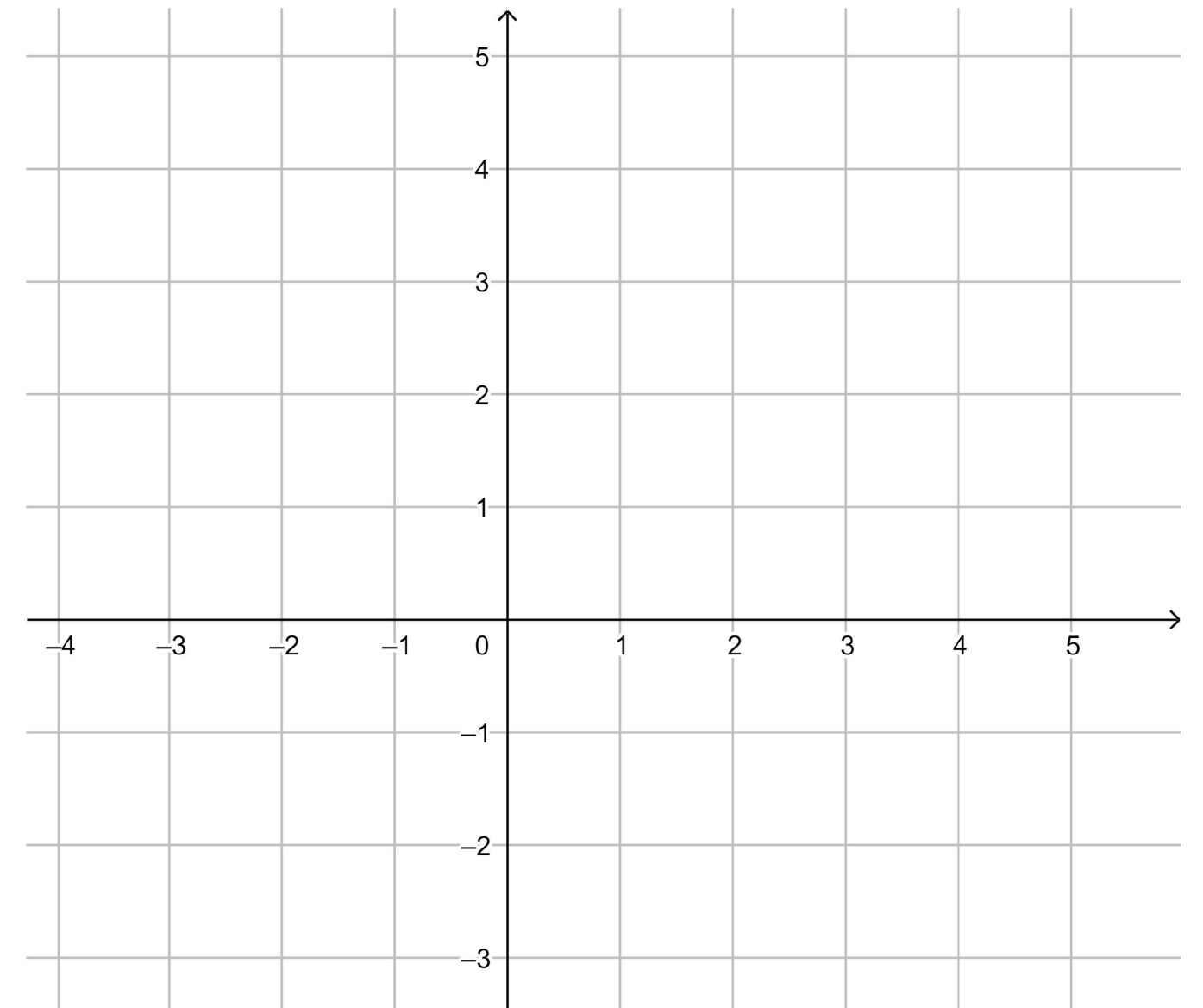


# Independent task

1) Look at shapes X, Y and Z drawn below:



2) Draw a rectangle with vertices at  $(-1, 2)$  and  $(3, 4)$ , and a line of symmetry of  $x = 1$ .



- What types of quadrilateral are X, Y and Z?
- How many lines of symmetry does each shape have?
- Write down the equations of these lines of symmetry.



# Explore

Draw an appropriate set of axes and complete shapes that fit the following descriptions.

A square with a line of symmetry on  $x = 5$

A rectangle with a line of symmetry on  $y=3$  and one vertex at  $(-5, 1)$

A square with a line of symmetry on  $x=-4$  and one vertex at  $(-4, -1)$

