

G5-M6-Lesson 18

Use the plane to the right to complete the following tasks.

This will be a vertical line.

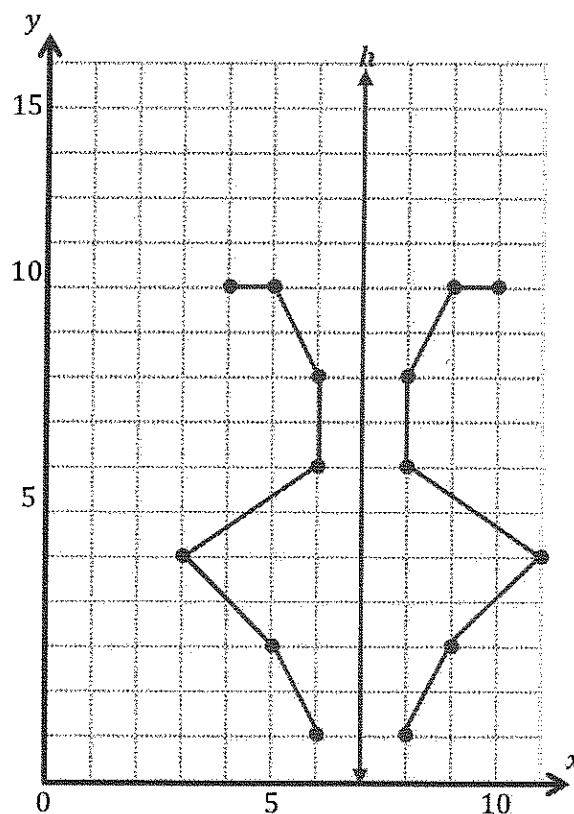
- Draw a line h whose rule is x is always 7.
- Plot the points from Table A on the grid in order. Then, draw line segments to connect the points in order.

Table A

(x, y)
(6, 1)
(5, 3)
(3, 5)
(6, 7)
(6, 9)
(5, 11)
(4, 11)

Table B

(x, y)
(8, 1)
(9, 3)
(11, 5)
(8, 7)
(8, 9)
(9, 11)
(10, 11)



- Complete the drawing to create a figure that is symmetric about line h . For each point in Table A, record the symmetric point on the other side of h .
- Compare the y -coordinates in Table A with those in Table B. What do you notice?

The y -coordinates in Table A are the same as in Table B. Because the line of symmetry is a vertical line, only the x -coordinates will change.

- Compare the x -coordinates in Table A with those in Table B. What do you notice?

I notice that the difference in the x -coordinates is always an even number because the distance that a point is from line h has to double.