

Reflecting in a Given Horizontal or Vertical Line

Maths

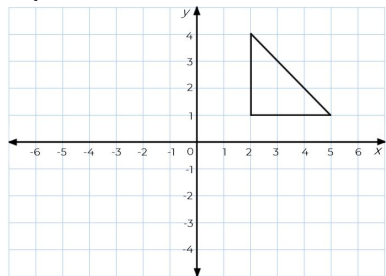
Miss Davies



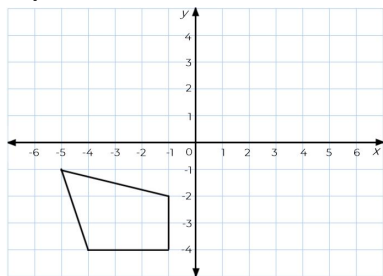
Reflecting in a Given Horizontal or Vertical Line

1. Reflect the shapes in the x-axis.

a)

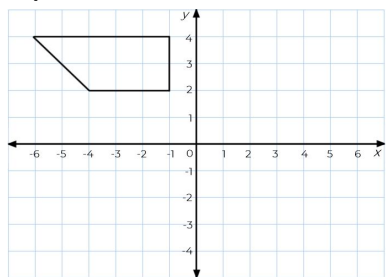


b)

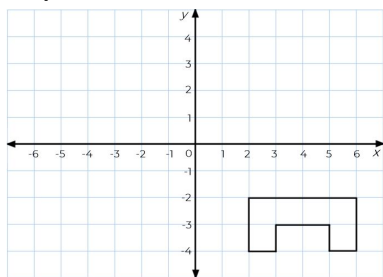


2. Reflect the shapes in the y-axis.

a)

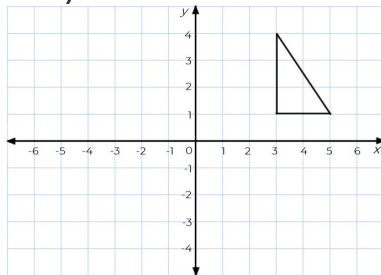


b)

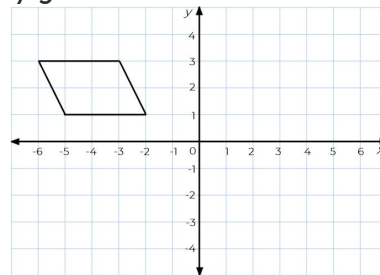


3. Reflect each shape in the given mirror line.

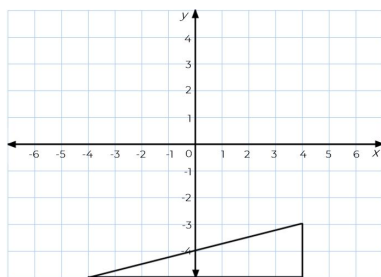
a) $x = 1$



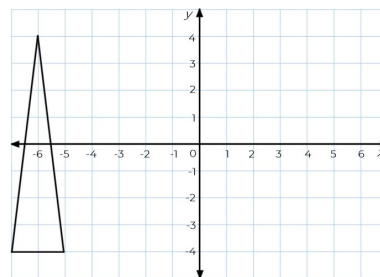
b) $y = -1$



c) $y = -2$

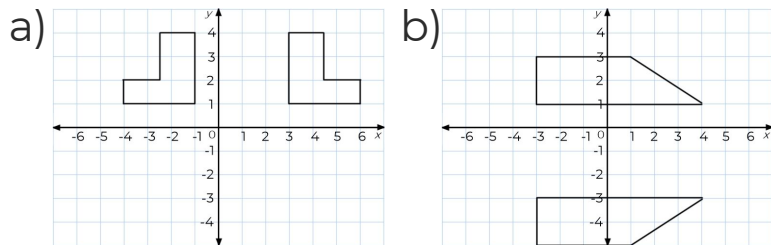


d) $x = -3$



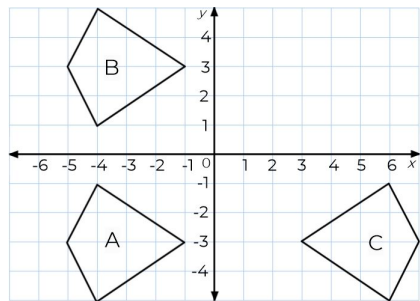
Reflecting in a Given Horizontal or Vertical Line

4. Identify the mirror line in each of the reflections.



5. Describe the reflection from

a) A to B b) A to C



6. Draw a coordinate grid for values of x and y from -5 to 5

On your grid plot and join the points to form a trapezium.

$(1, 0)$ $(3, 0)$ $(3, 2)$ $(2, 2)$

Compare these coordinates to the coordinates of the vertices when the trapezium is reflected in the

- a) the x -axis
- b) the y -axis



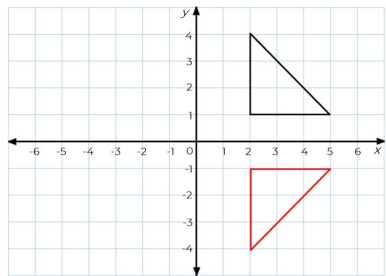
Answers



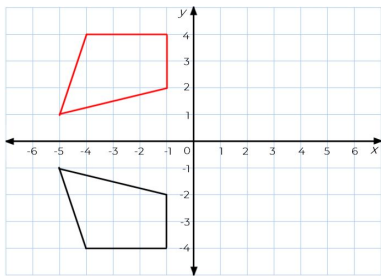
Reflecting in a Given Horizontal or Vertical Line

1. Reflect the shapes in the x-axis.

a)

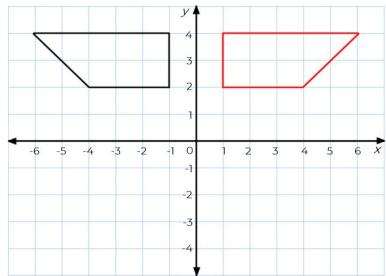


b)

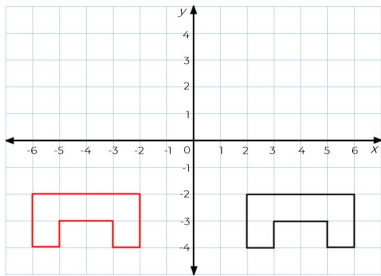


2. Reflect the shapes in the y-axis.

a)

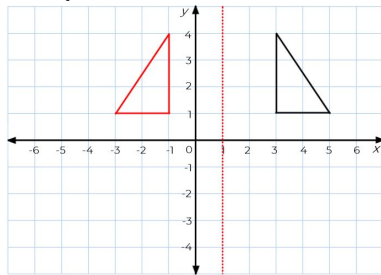


b)

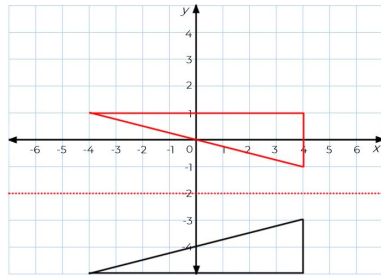


3. Reflect each shape in the given mirror line.

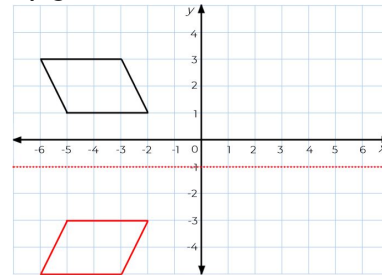
a) $x = 1$



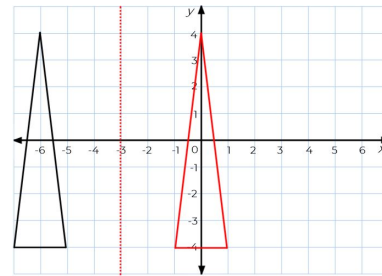
c) $y = -2$



b) $y = -1$

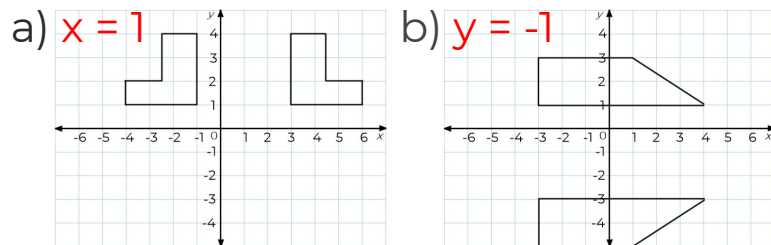


d) $x = -3$



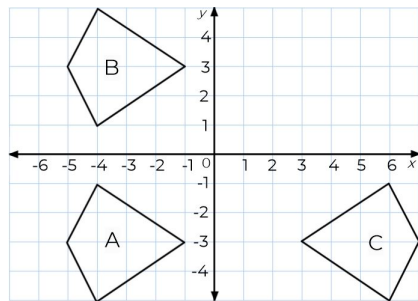
Reflecting in a Given Horizontal or Vertical Line

4. Identify the mirror line in each of the reflections.



5. Describe the reflection from

a) A to B x -axis b) A to C $x = 1$



6. Draw a coordinate grid for values of x and y from -5 to 5

On your grid plot and join the points to form a trapezium.

(1, 0) (3, 0) (3, 2) (2, 2)

Compare these coordinates to the coordinates of the vertices when the trapezium is reflected in the

a) the x -axis the y -coordinates have been multiplied by -1

b) the y -axis the x -coordinates have been multiplied by -1

