

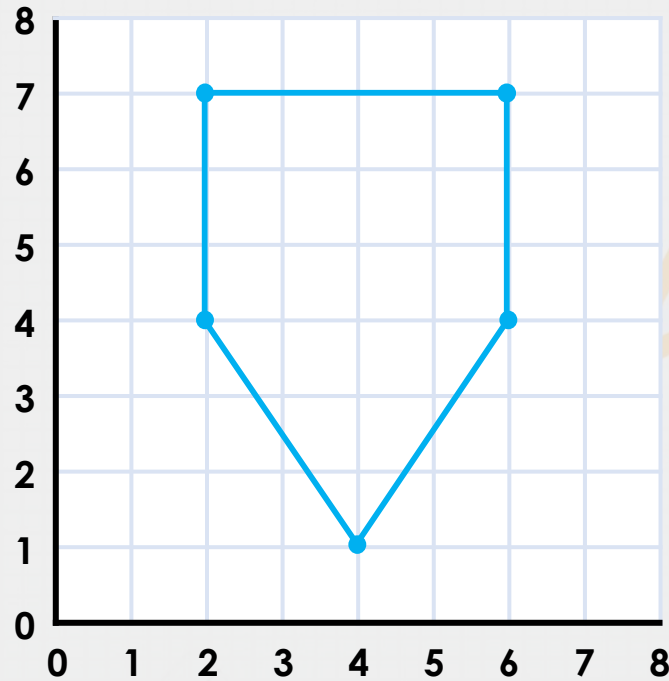
# National Curriculum Objectives:

Mathematics Year 6: (6P3) Describe positions on the full coordinate grid (all four quadrants)

# Step 2: Four Quadrants

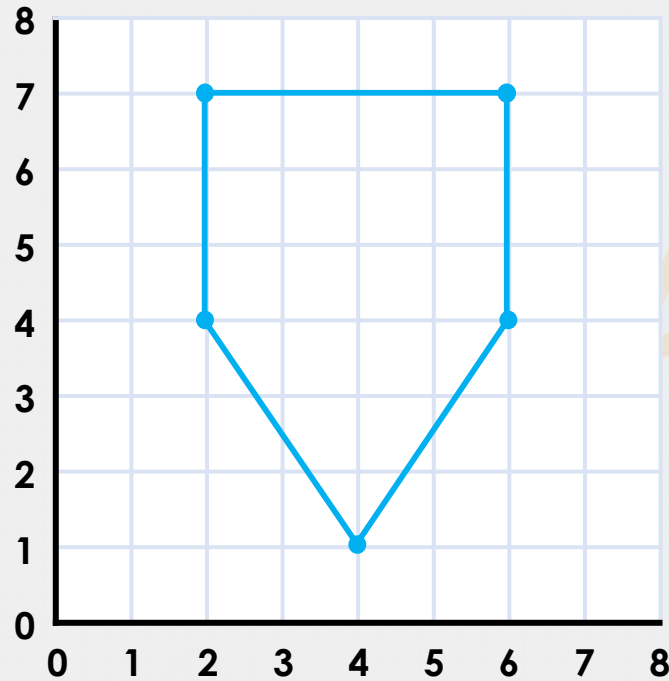
## Introduction

What are the coordinates for this shape?



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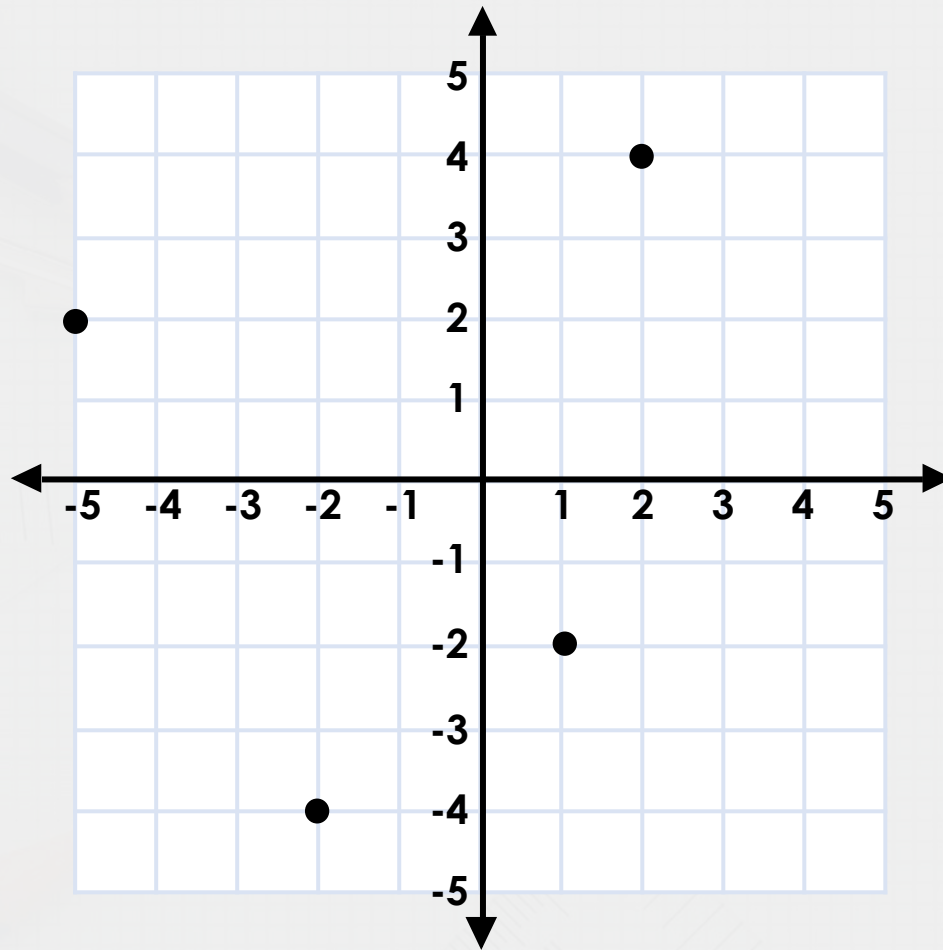
What are the coordinates for this shape?



**$(4,1), (2,4), (2,7), (6,7), (6,4)$**

## Varied Fluency 1

Match the coordinates to the points on the grid.



$(1, -2)$

$(-5, 2)$

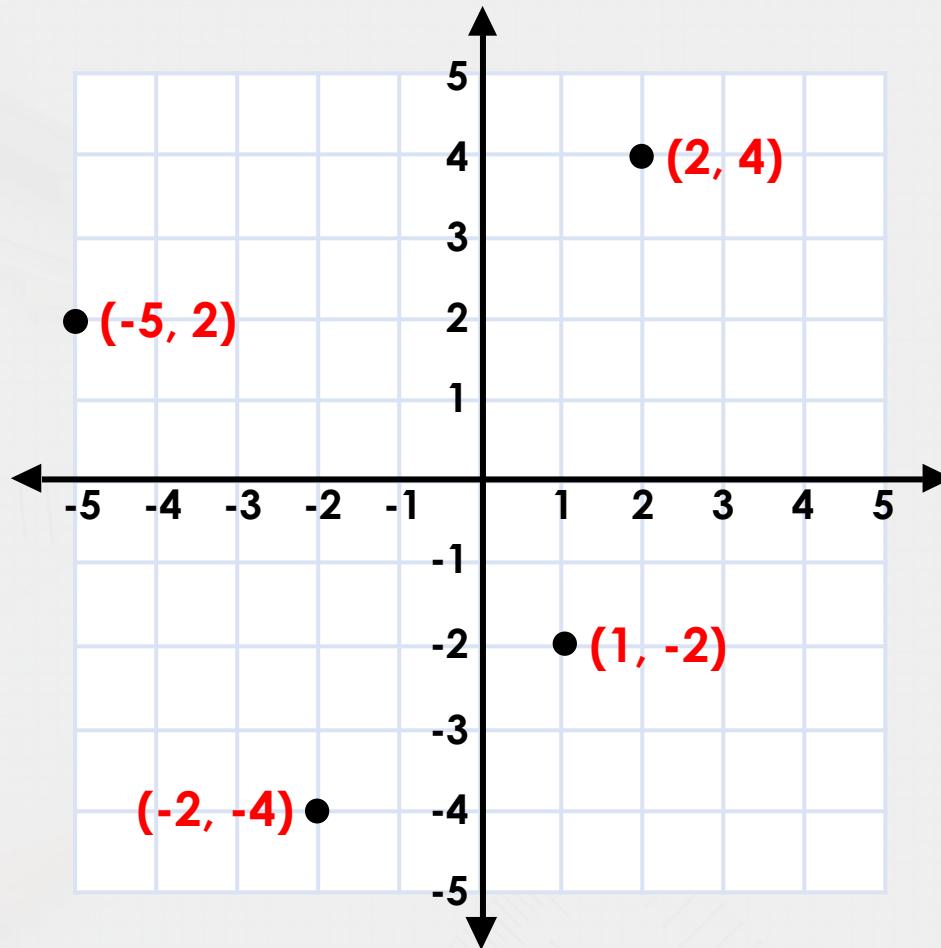
$(-2, -4)$

$(-2, 1)$

$(2, 4)$

## Varied Fluency 1

Match the coordinates to the points on the grid.



$(1, -2)$

$(-5, 2)$

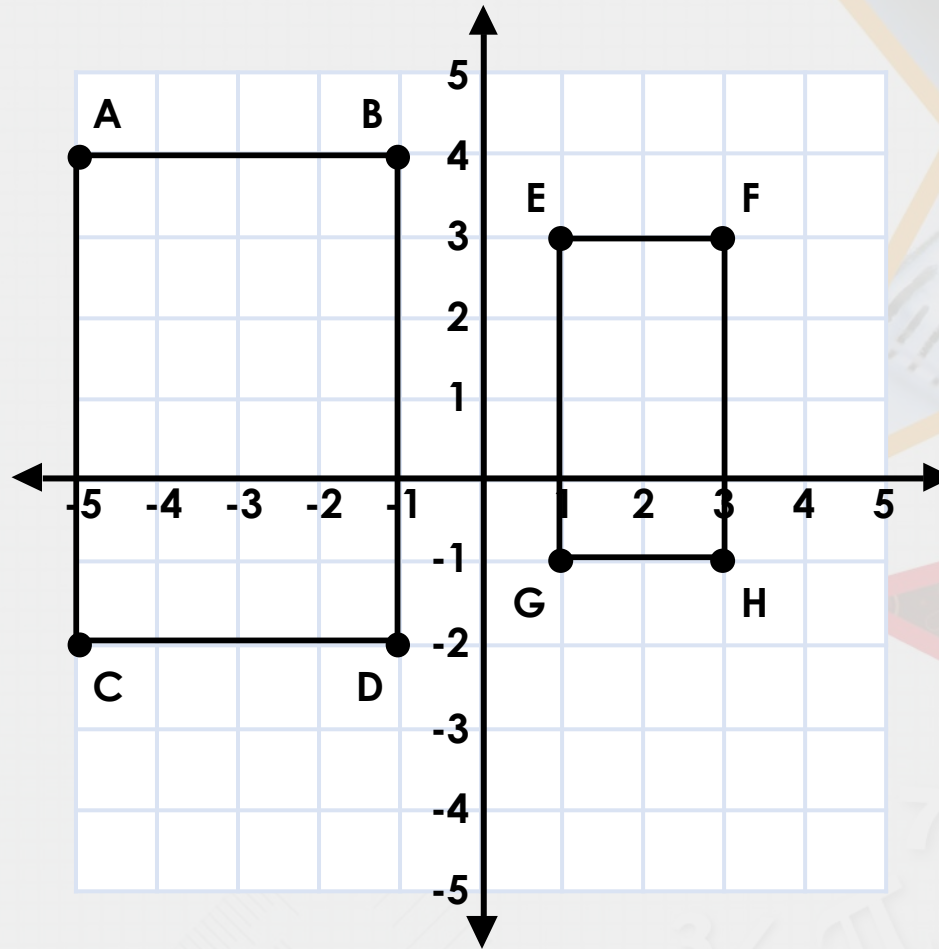
$(-2, -4)$

$(-2, 1)$

$(2, 4)$

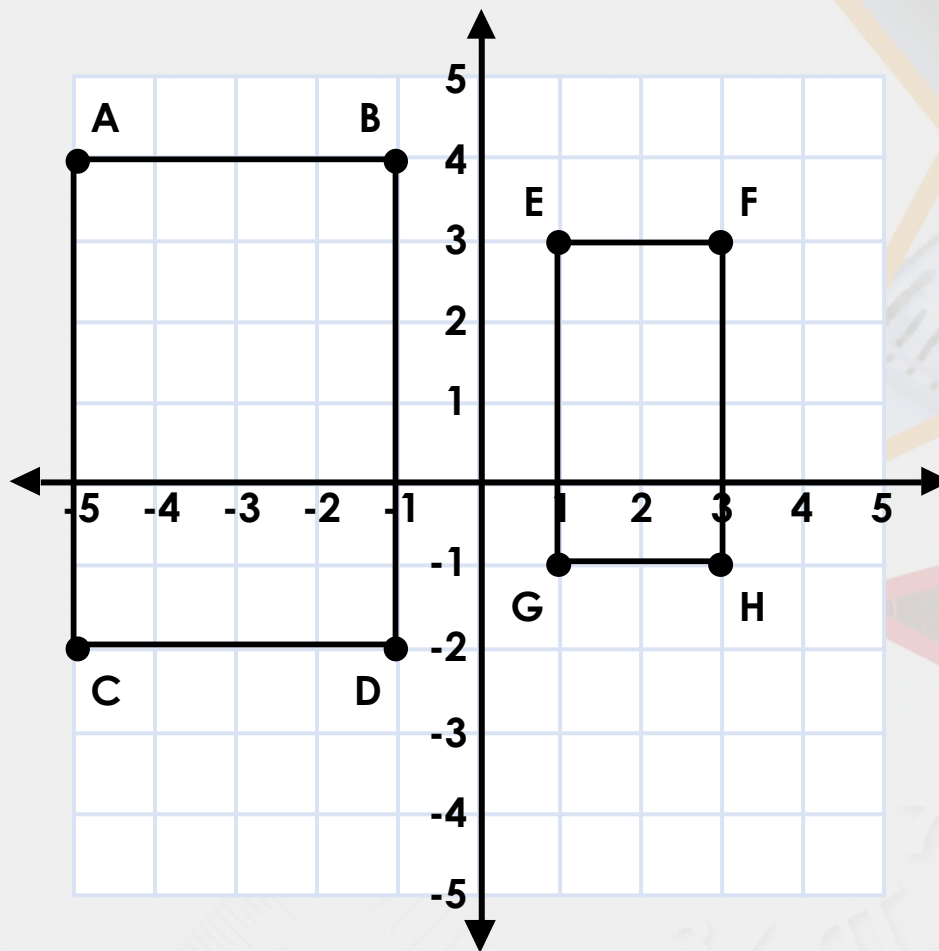
## Varied Fluency 2

Write the coordinates of each shape.



## Varied Fluency 2

Write the coordinates of each shape.



**A (-5, 4)**

**B (-1, 4)**

**C (-5, -2)**

**D (-1, -2)**

**E (1, 3)**

**F (3, 3)**

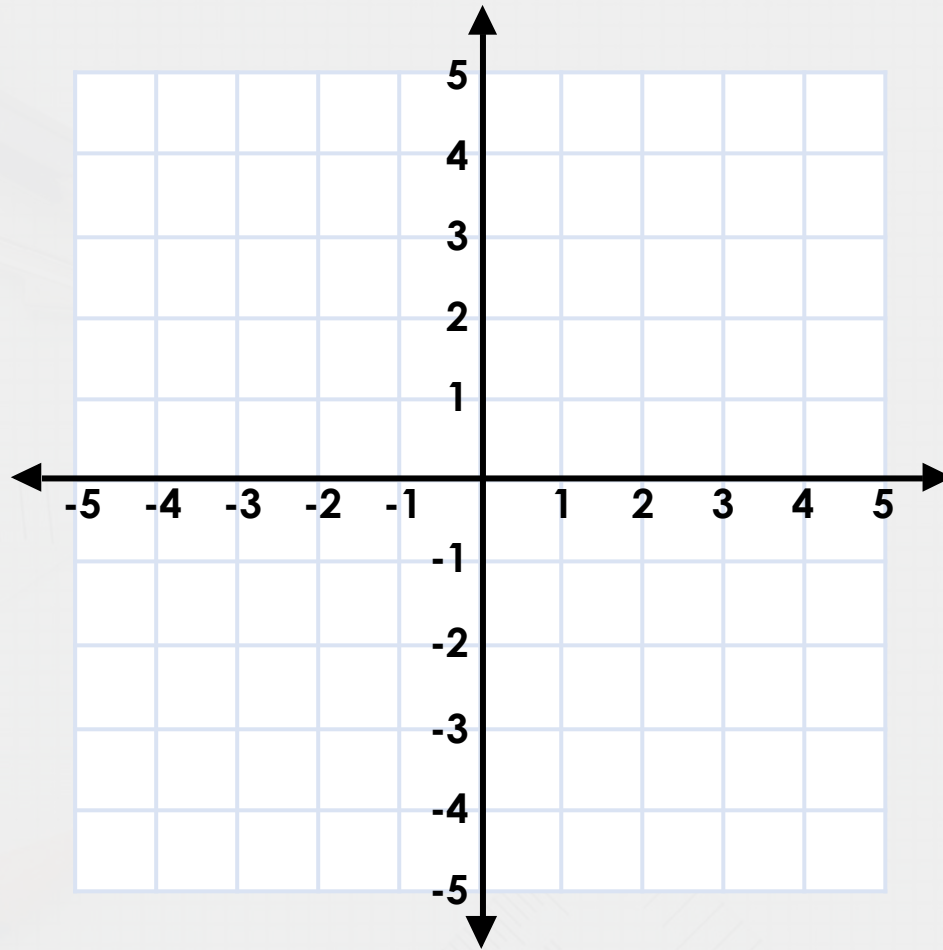
**G (1, -1)**

**H (3, -1)**



### Varied Fluency 3

Plot the coordinates and label them with their corresponding letter.



A.  $(0, 3)$

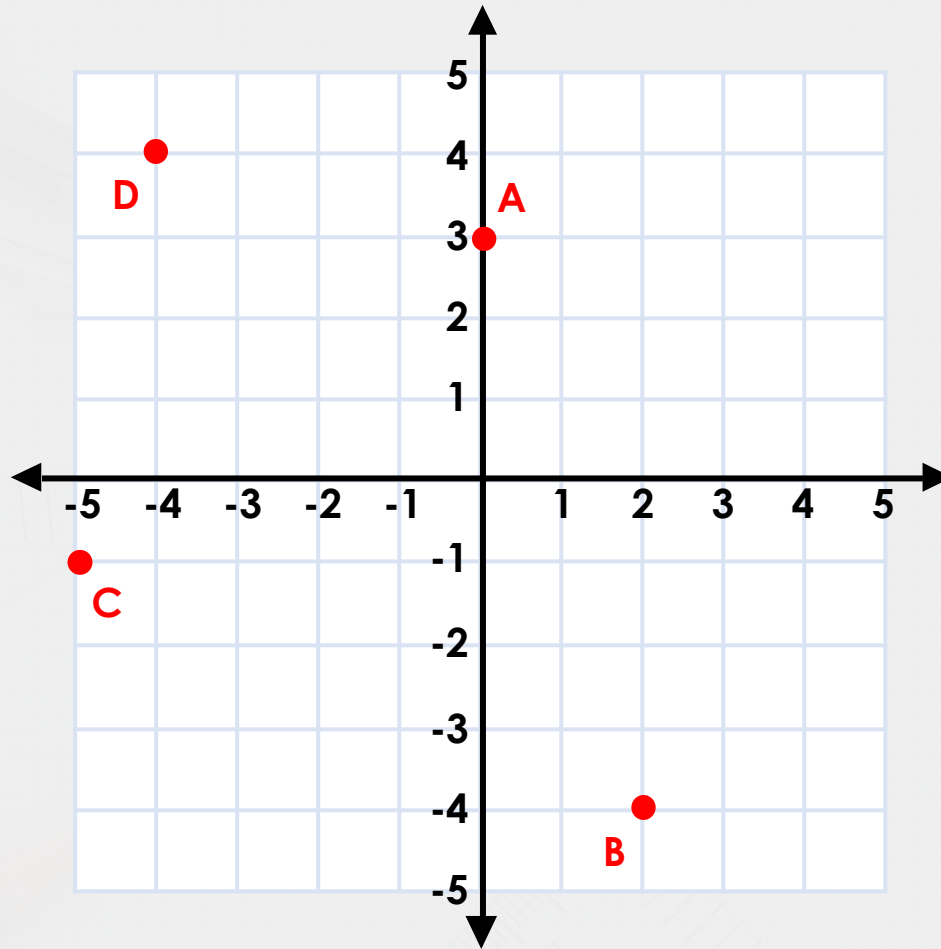
B.  $(2, -4)$

C.  $(-5, -1)$

D.  $(-4, 4)$

### Varied Fluency 3

Plot the coordinates and label them with their corresponding letter.



A.  $(0, 3)$

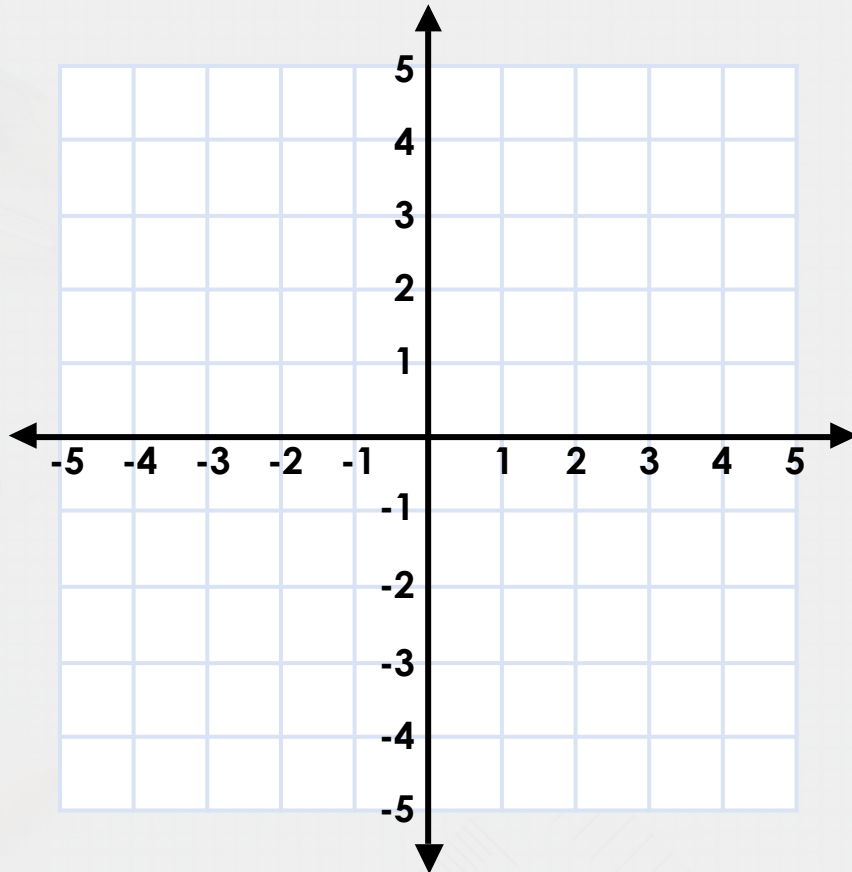
B.  $(2, -4)$

C.  $(-5, -1)$

D.  $(-4, 4)$

## Reasoning 1

George thinks that the coordinates below make a square.  
Is he correct? Explain why.



$(3, 1)$

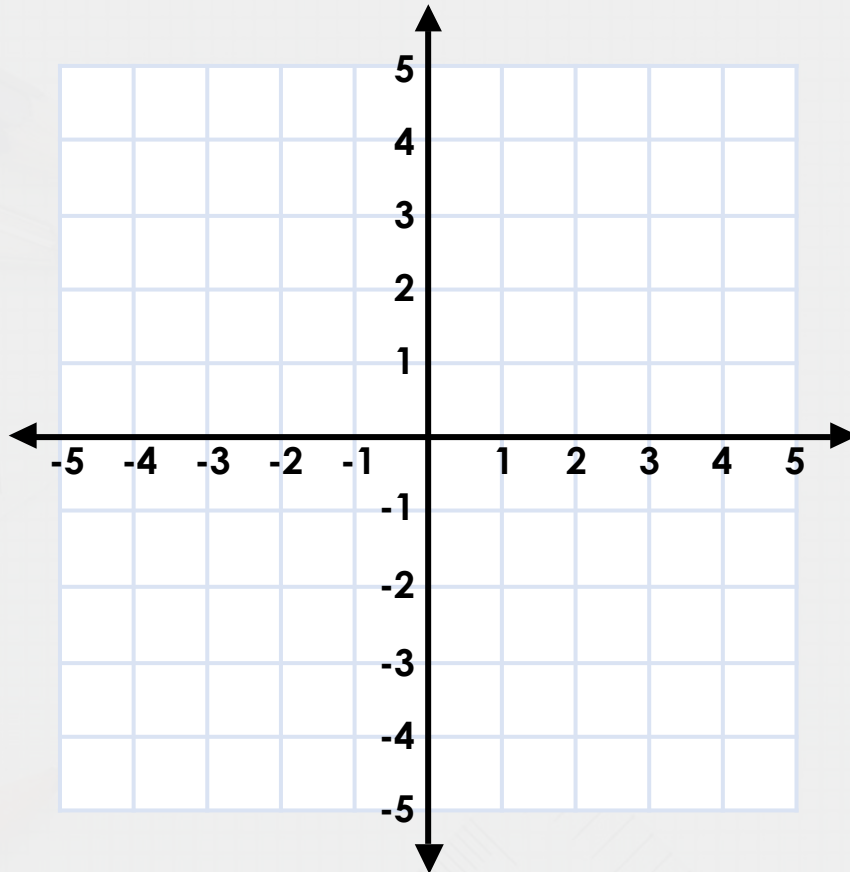
$(-1, 1)$

$(-1, -4)$

$(3, -4)$

## Reasoning 1

George thinks that the coordinates below make a square.  
Is he correct? Explain why.



$(3, 1)$

$(-1, 1)$

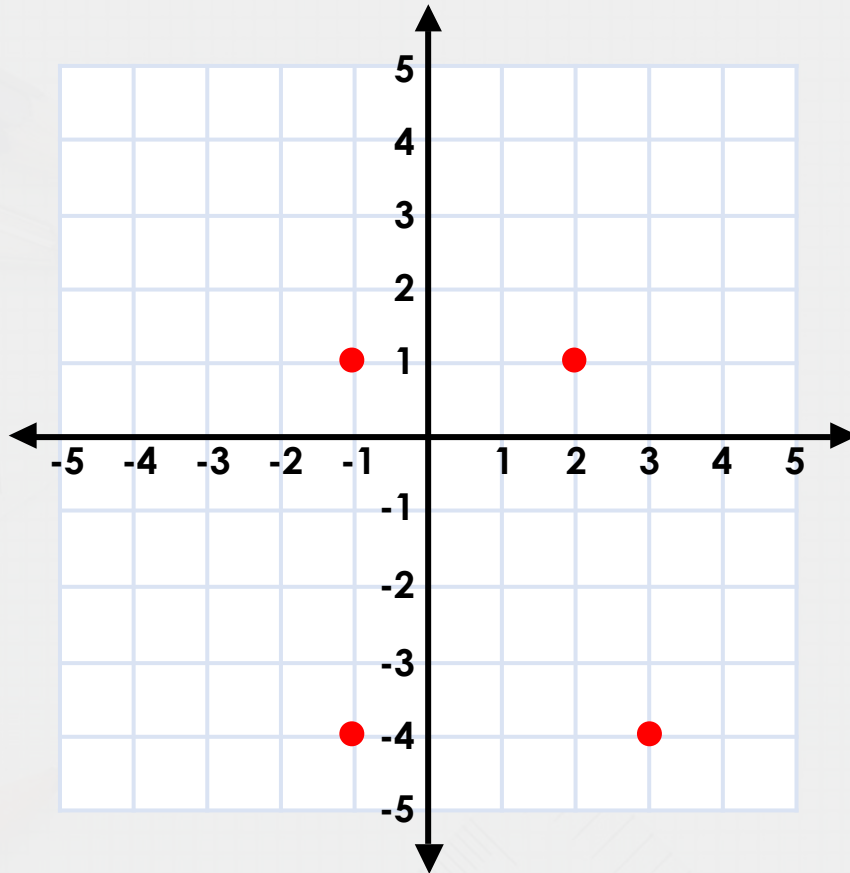
$(-1, -4)$

$(3, -4)$

George is incorrect because...

## Reasoning 1

George thinks that the coordinates below make a square.  
Is he correct? Explain why.



$(3, 1)$

$(-1, 1)$

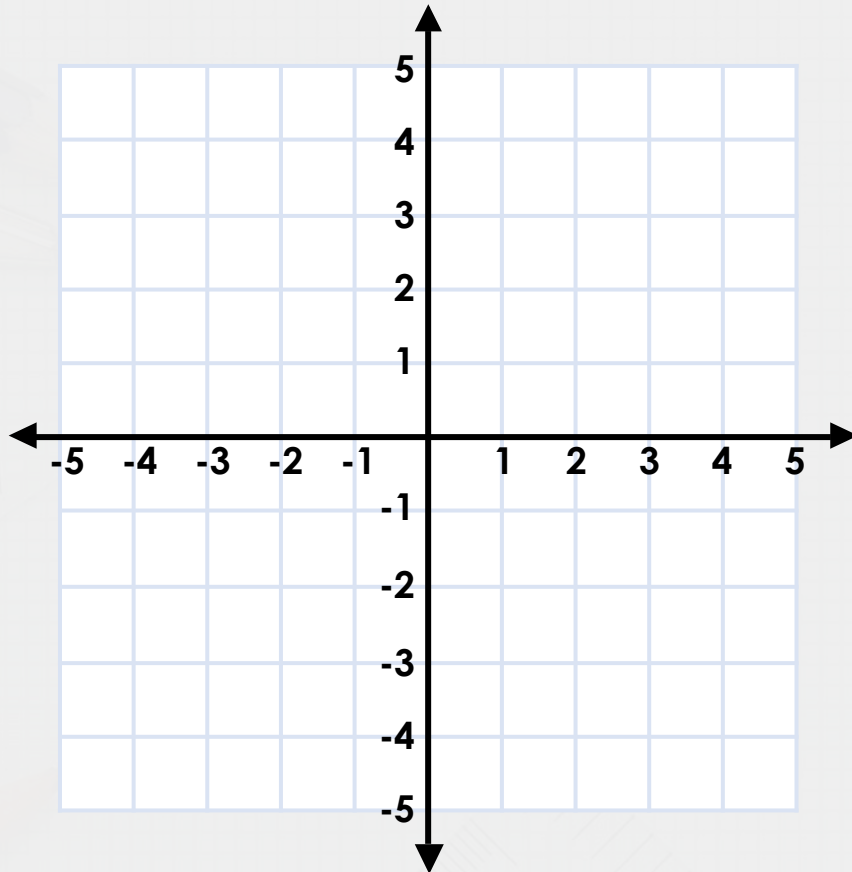
$(-1, -4)$

$(3, -4)$

George is incorrect because the coordinates make a rectangle. The coordinates  $(-1, -4)$  and  $(3, -4)$  should be  $(-1, -3)$  and  $(3, -3)$ .

## Problem Solving 1

**Follow the clues. What could the missing coordinates of the shape be?**



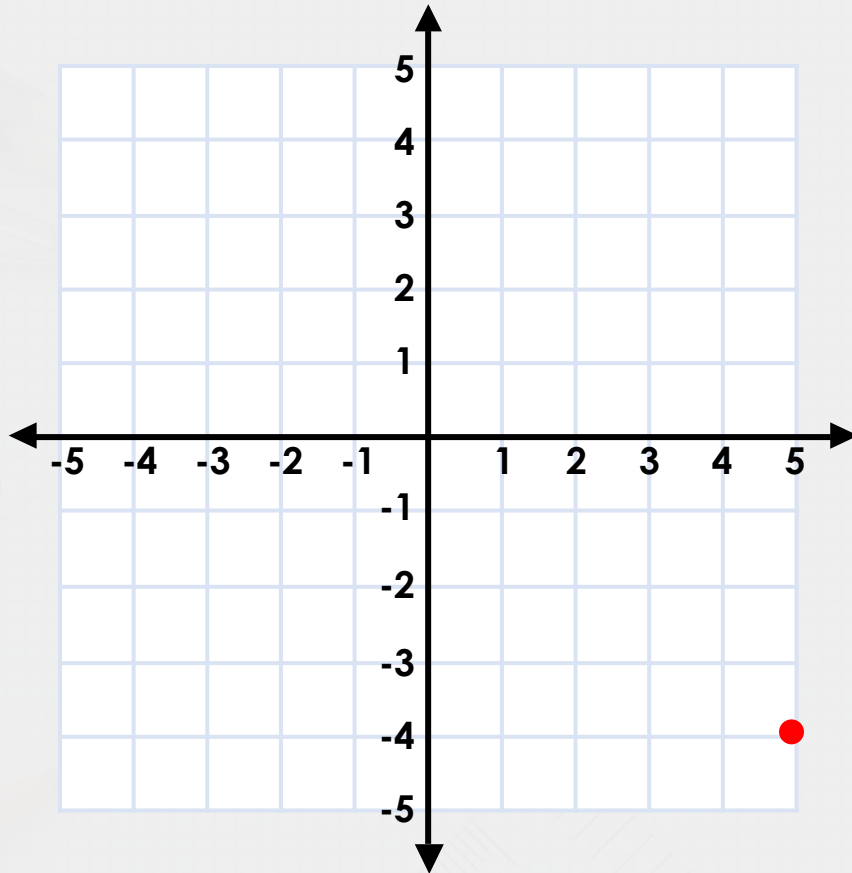
**The shape is in four quadrants.**

**The shape is a rectangle.**

**One of the points is  $(5, -4)$**

## Problem Solving 1

Follow the clues. What could the missing coordinates of the shape be?



The shape is in four quadrants.

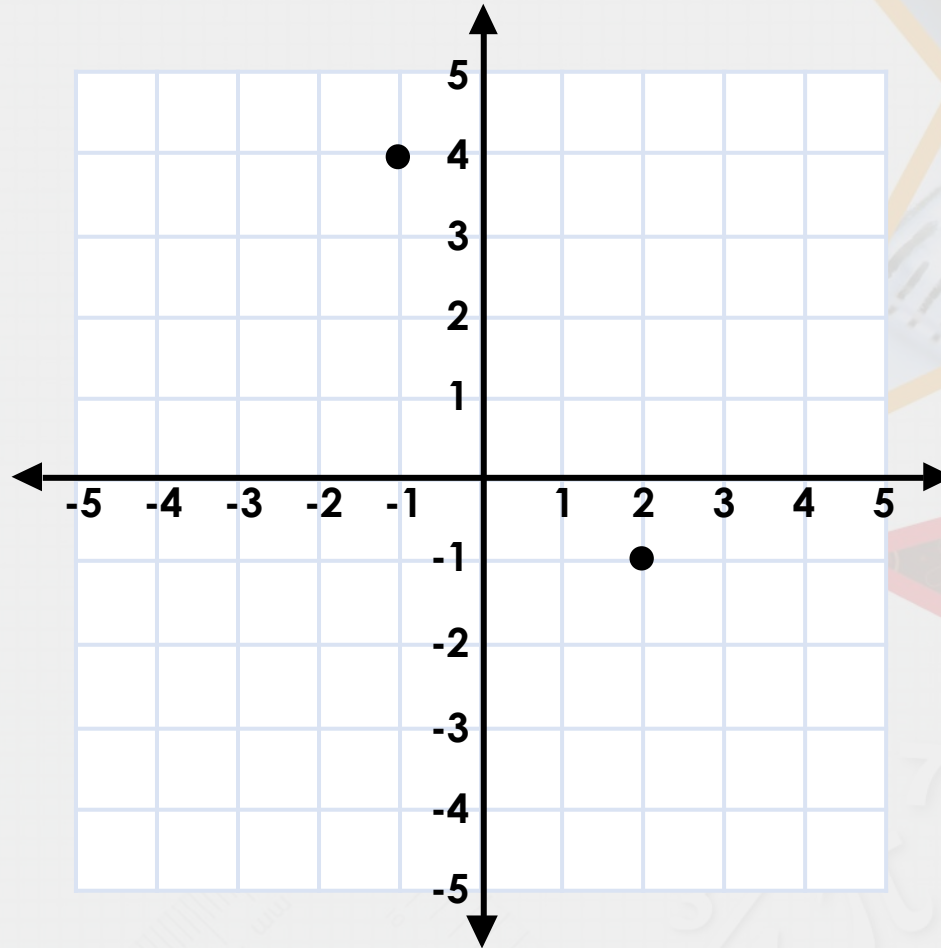
The shape is a rectangle.

One of the points is  $(5, -4)$

Various answers, for example:  $(-1, -4)$ ,  $(-1, 3)$ ,  $(5, 3)$

## Problem Solving 2

Layla is plotting the coordinates of a triangle with a vertical line of symmetry. Find the missing coordinate.





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