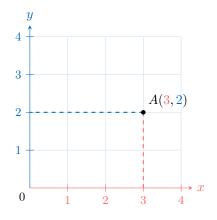
COORDINATE GEOMETRY

A COORDINATE PLANE

Definition Coordinate Plane

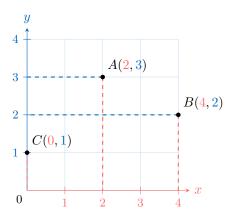
A coordinate plane is a grid formed by two number lines that intersect at zero, called the origin. The horizontal line, called the x-axis, extends left and right. The vertical line, called the y-axis, extends up and down. The coordinates of a point are a pair of numbers, like A(2,3). The first number (the x-coordinate) tells you how far to move right from the origin, and the second number (the y-coordinate) tells you how far to move up.



Ex: Plot these points on a coordinate plane: A(2,3), B(4,2), and C(0,1).

Answer:

- For A(2,3): Move 2 units right, then 3 units up.
- For B(4,2): Move 4 units right, then 2 units up.
- For C(0,1): Stay at 0 units right, move 1 unit up.



B TABLE OF POINTS

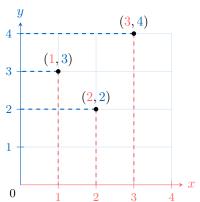
Definition Table of Points

A table of points lists the coordinates of points in a coordinate plane. In such a table:

- \bullet The first row represents the **x-coordinates**.
- The second row represents the **y-coordinates**.

Each column pairs an x-coordinate with a y-coordinate to form a point, such as (x, y).

Ex:



x	1	2	3	$ \rightarrow (1,3), (2,2), (3,4) \rightarrow $
y	3	2	4	