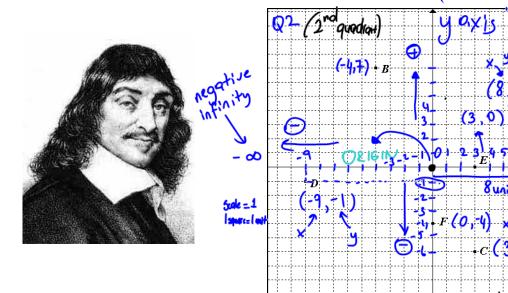


In 1637, the famous mathematician René Descartes devised a method identifying a point's position on a flat surface. He thought of using two intersecting numbered lines known as the x and y **axes** (pronounced "axees" – this is the plural of "axis") in order to plot points. The location of each point could then be identified by a pair of numbers known as the point's **coordinates**.

This **Cartesian plane**, and its invention changed mathematics forever. In analytic geometry we can represent points, lines, circles and other curves using Descartes' system.



1. There are two axes, the X-axis

the y - axis. Place the name of the axis at its **positive end.** xis

(x,y)

values)

X axis

Cindependent

larn

2. Label each axis with a scale numbered at each fourth square.

(3rd quadrant)

- 4. Points are written with the \_\_\_\_ co-ordinate first, and the \_\_\_\_ coordinate second **inside brackets.**This is called an **ordered pair**. Label ordered pairs onto the points A to F.
- 5. The **origin** is the point where the axes intersect. The coordinates of the origin are (0,0)
- 6. State where the points have:
  - a) x coordinate 0
  - b) y coordinate 0
  - c) x coordinate negative Q2 or Q3
  - d) y coordinate negative Q3 or Q4
  - e) x coordinate negative and y coordinate positive  $\sqrt[q]{\lambda}$
  - f) x coordinate –4
  - g) y coordinate 3

