

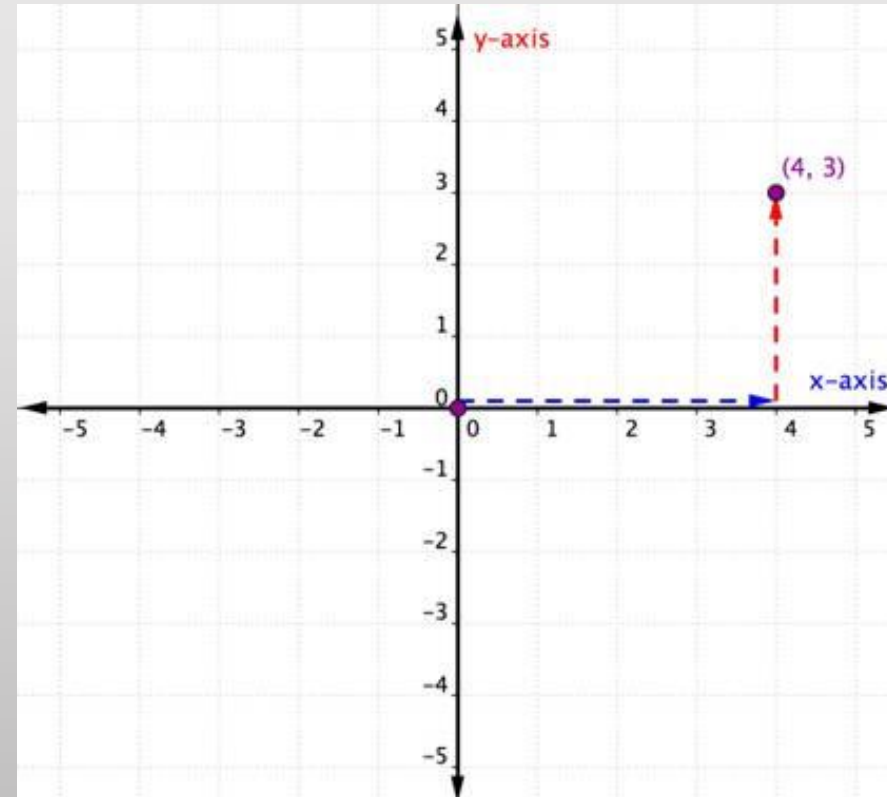


Miran Baban

Attributes of Raster Graphics

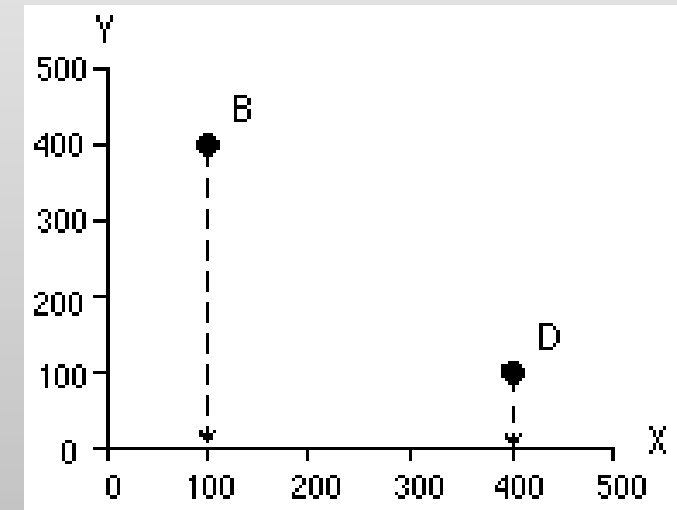
Points and Line

- A graph's basic relationship is represented by a point.
- A pair of numbers containing two coordinates define each point.



Points and Line

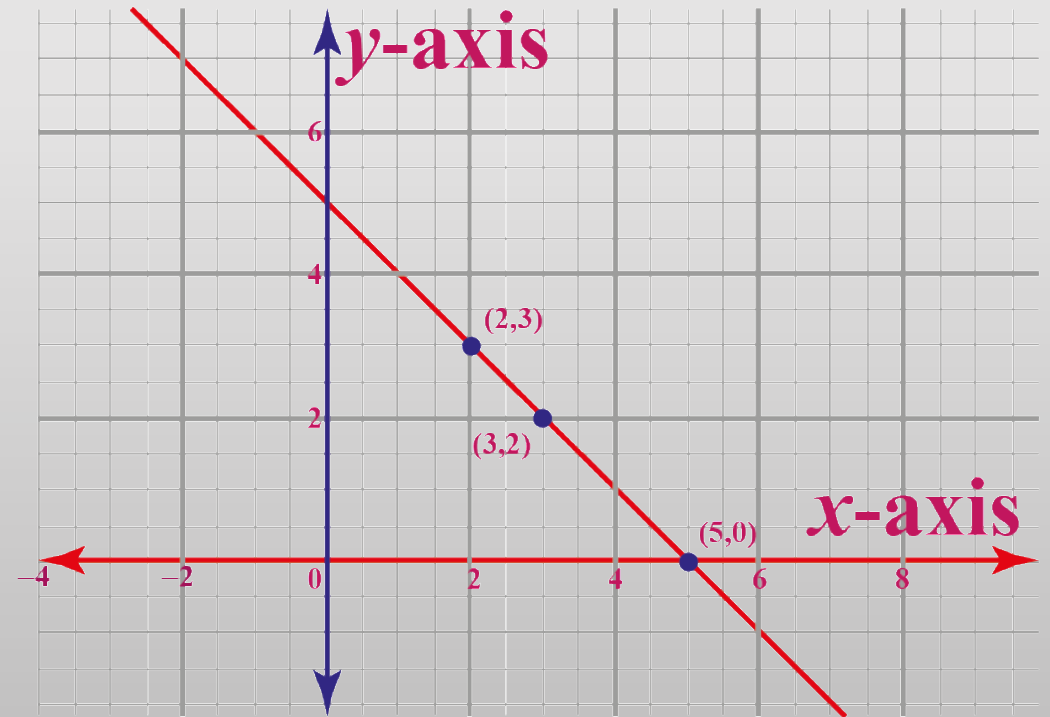
- One of the integers used to identify the location of a point on a graph is a coordinate.
- X-Y Coordinate axis.



Point and Line





- A line graph is a type of chart that is used to display data that varies over time.
- We make line graphs by connecting numerous locations with straight lines.



Line Equations

- A linear equation is one in which the variable's maximum power is always 1. A one-degree equation is another name for it.

$$y = mx + b$$

Slope (or Gradient) Y Intercept

Line Equations



- A straight line is graphically represented by the equation $y = m x + c$, where m is the slope/gradient and c is the intercept. In this article, you'll learn how to use Matplotlib to plot $y = m x + b$ in Python.

$$\text{Slop} = \frac{y_2 - y_1}{x_2 - x_1}$$

Line and Curve Attributes

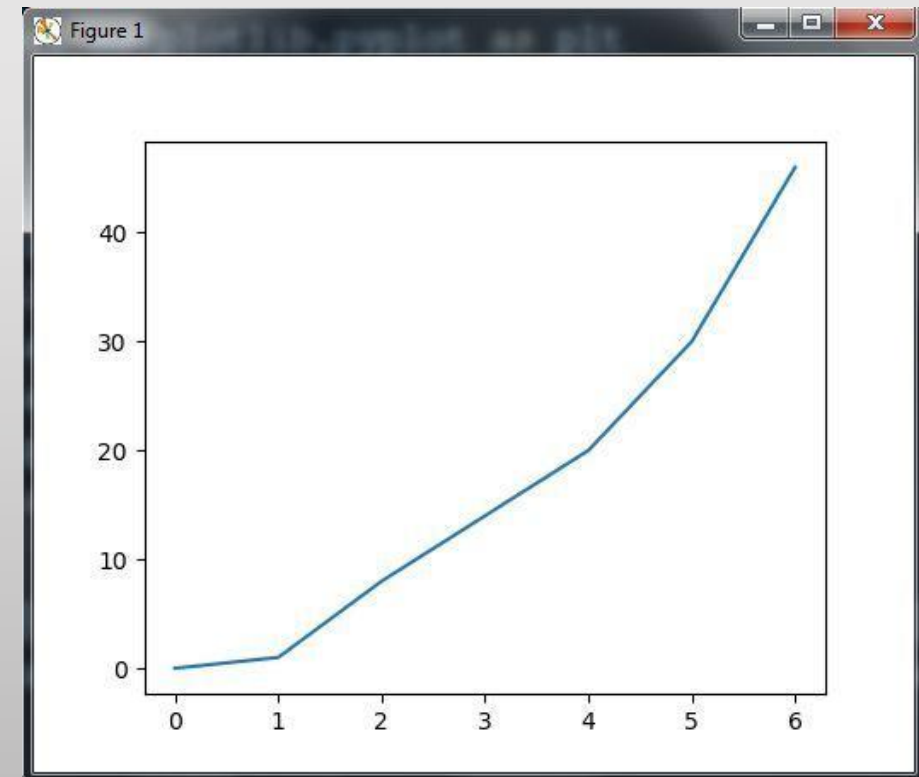
- Line attributes are the width, color, and styles
- For the style, there are dotted, dashed and straight line
- For the width of the line, it can be set by setting the values of the width.



Drawing Curves

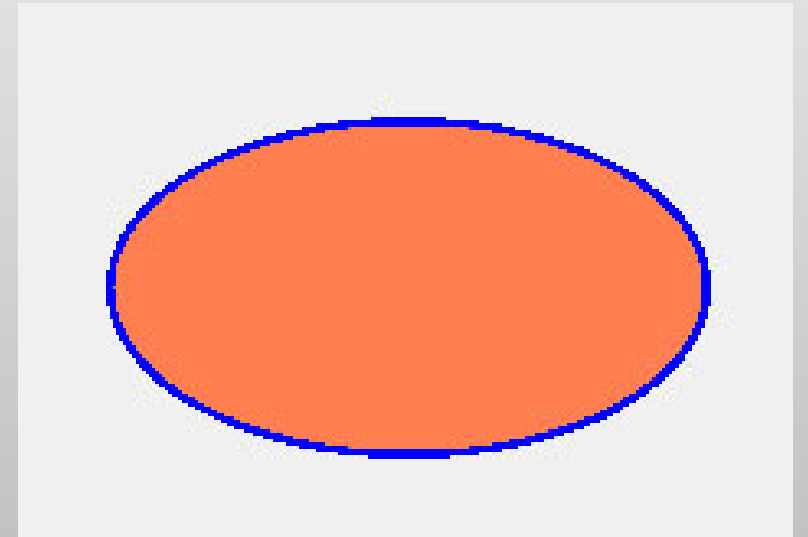


- For drawing curves, it is required to have more than one point, in other word the data should be a set of numbers.
- The numbers can be generated either as set of data as x,y from a file, or it can be set by using a math function.



Elements of Circles and Eclipse

- The main elements of eclipse are width, height, xy as center and angle=0, the angle consider as scalar.
- Other properties for eclipse are fill color and line color



Elements of Circles and Eclipse



$$(x - h)^2 + (y - k)^2 = r^2$$

