Graphs.

A graph is a line, straight or curved which shows the variation of one quantity *w.r.t.* other, which are interrelated with each other.

In a relation of two quantities, the quantity which is made to alter at will, is called the independent variable and the other quantity which varies as a result of this change is called the dependent variable. Conventionally, in any graph, the independent variable (*i.e.* cause) is represented along *x*-axis and dependent variable (*i.e.* effect) is represented along *y*-axis.

For example, we want to depict V = IR graphically, in which *R* is a constant called resistance, *V* is the applied voltage (cause) and *I* (effect) is the resulting current. We will represent voltage on *x*-axis and current on *y*-axis.





	$y = \sin \theta$		$y = \cos\theta$
sine curve		cosine curve	