


CHAPTER I.

Geometrical Elements.

A straight line : 

It is evidently the shortest distance between its ends.

A broken line : 

A curved line : 

An angle : 

The size of the angle does not depend on the lengths of the bounding lines **AB** and **AC**, but on the *amount of divergence* of these lines from one another. Thus the angle **P** is greater than the angle **Q**, and the angle **R** is less than the angle **Q**.



It is usual to indicate an angle by using one letter, as the angle **P**, or by using three letters, as the angle **BAC**. In the latter case the letter at the angle itself is in the middle, and the other two letters lie on the *arms* of the angle.