

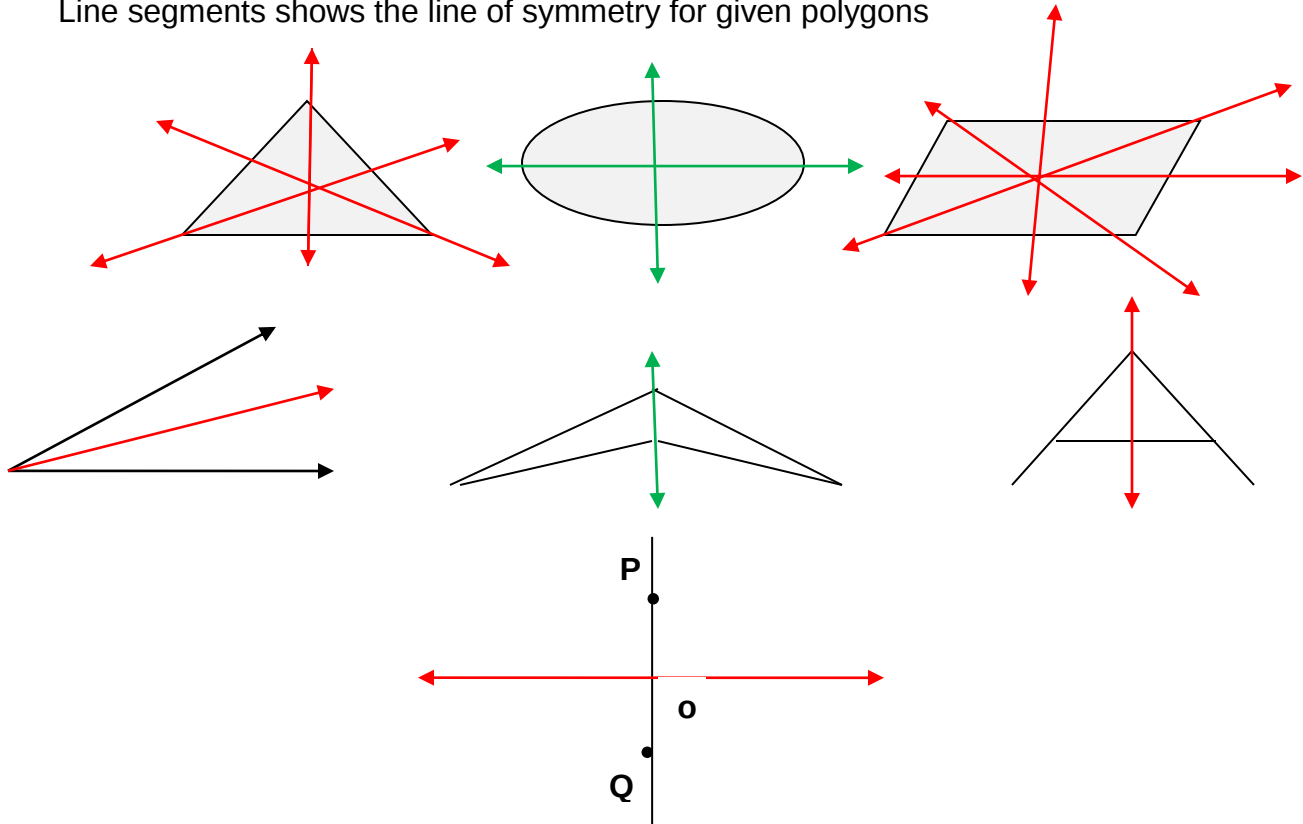
# LINEAR SYMMETRY

## SYMMETRY:

A plane figure is said to have symmetry (or linear symmetry) if on folding the figure about a line on it, the two parts of figures exactly coincide.

The line about which the figure is symmetrical is called "line of symmetry" or "an axis of symmetry" or simply a "mirror line"

Line segments shows the line of symmetry for given polygons



**Symmetric point :** In the figure above point P on the line, when folded along the line of symmetry co insides with Q. Hence Q is said to be "symmetric point".

**To locate symmetric point of point P:**

- (i) Draw a perpendicular line OP from point P to the line of symmetry
- (ii) Extend PO and cut  $OQ = OP$