

Do yourself:-

- 1) The angles of a quad are in the ratio 3:5:9:13, find all angles of the quad.
- 2) If the diagonals of a  $11^{\text{th}}$  are equal, then show that it is a rectangle
- 3) Show that if the diagonals of a quad bisect each other at right angles then it is a rhombus
- 4) Show that the diagonals of a square are equal and bisect each other at right angles
- 5) Show that if the diagonals of a quad are equal and bisect each other at right angles then it is a square