## STAR POLYGONS

- A star -shaped polygon is formed by joining together the non-consecutive vertices in a regular polygon
- To construct a star polygon inscribed in a circumference, we need to follow the same steps to draw a regular polygon, it depends on how many points of a star we want to draw.
So we must start finding the star points as they were the polygon vertices.



## FIVE POINTS STAR POLYGON

- Follow the same steps you follow to draw a pentagon.
- You have now points and
- Join the non-consecutive vertices as follows: and



## SIX POINTS STAR POLYGON

- Follow the same steps you follow to draw an hexagon.
- You have now points A,F,C B,D and E
- Join the non-consecutive vertices as follows: A-C, C-D,D-A,E-F,F-B and B-E



## EIGHT POINTS STAR POLYGON

- After the first steps common to all regular polygons we get four rect angles and points A,B,C,D - Find the angle bisector of each angle.Those rects intersect the circumference at points E, F G and H .
- Join together the nonconsecutive vertices to find an eight points star polygon: A-B, B-C, C-D, D-A and E-F, F-G, G-H, H-E



## LONG EIGHT POINTS STAR POLYGON

- Follow the same steps you follow to draw an eight points star polygon.
- We'll name these points with numbers this time, to make easier the joining - Join the $1+3$ non-consecutive points begining at number 1


