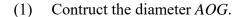
Construct a regular dodecagon inscribed in a circle.

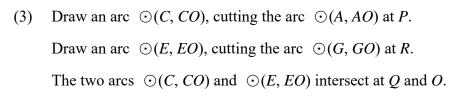
Created by Mr. Francis Hung on 20220623. Last updated: 03/07/2023

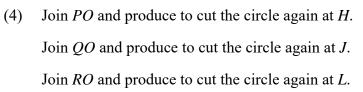
Given a circle with centre at O. To contruct a regular dodecagon (regular 12-sided polygon) inscribed in the circle.

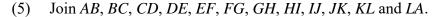
Construction steps:



(2) Draw an arc $\odot(A, AO)$, cutting the circle at C and K as shown. Draw an arc $\odot(G, GO)$, cutting the circle at E and I as shown.







Then ABCDEFGHIJKL is the required regular dodecagon. Proof omitted.

Using a similar method, we can construct a regular 24-sided polygon, regular 48-sided polygon,, regular 3×2^n -gon $(n \ge 1)$ inscribed in a circle.

