

A simpler way to Bisect an Angle

CoMaC

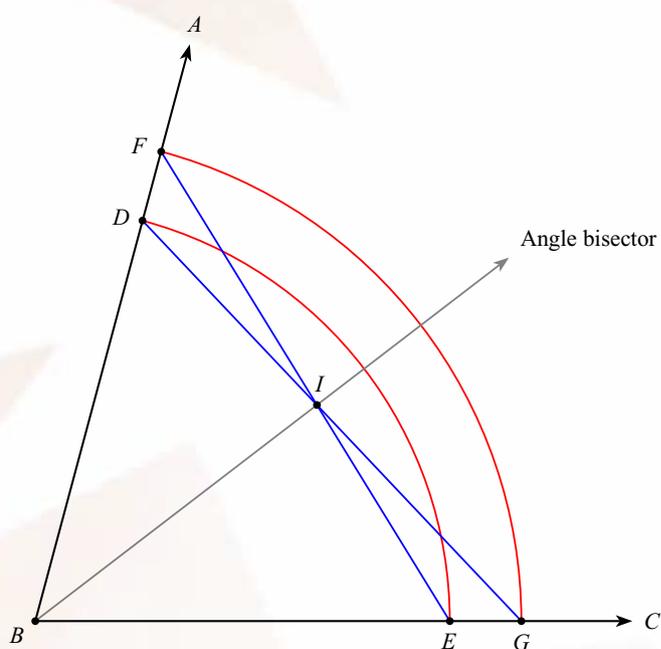


Figure 1

An angle bisection using ruler and compass is part of the standard geometry syllabus at the upper primary level. There is a standard procedure for doing the job, and it is so simple that one would be hard put to think of an alternative to it that is just as simple, if not simpler. But here is such a procedure, announced in a Twitter post [1].

It can be depicted using practically no words. In Figure 1, the angle to be bisected is $\angle ABC$. Draw two arcs DE and FG as shown, centred at B . Next, draw the segments DG and FE ; let them intersect at I . Draw the ray BI . This is the required angle bisector.

References

1. Solve my maths (Twitter), *A simpler way to bisect an angle using a compass*; <https://twitter.com/solvemymaths/status/776842316938113024?s=03>



The **COMMUNITY MATHEMATICS CENTRE** (CoMaC) is an outreach arm of Rishi Valley Education Centre (AP) and Sahyadri School (KFI). It holds workshops in the teaching of mathematics and undertakes preparation of teaching materials for State Governments and NGOs. CoMaC may be contacted at shailesh.shirali@gmail.com.