

# A simpler way to Bisect an Angle

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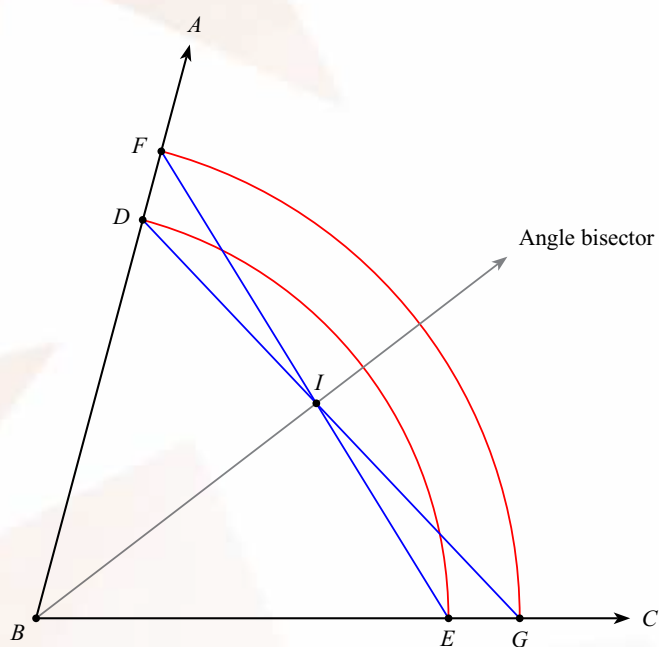


Figure 1

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>



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