



EGD Grade 10

Geometric Constructions

Bisecting an angle

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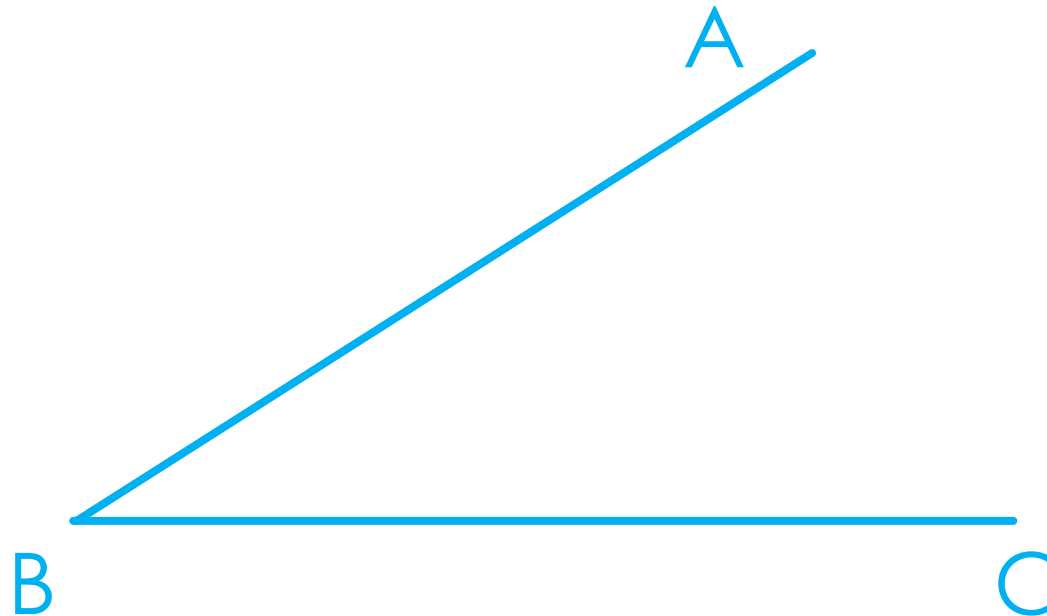
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Geometric Constructions

Question

- Bisecting angle (e.g. 39°) ABC by means of construction



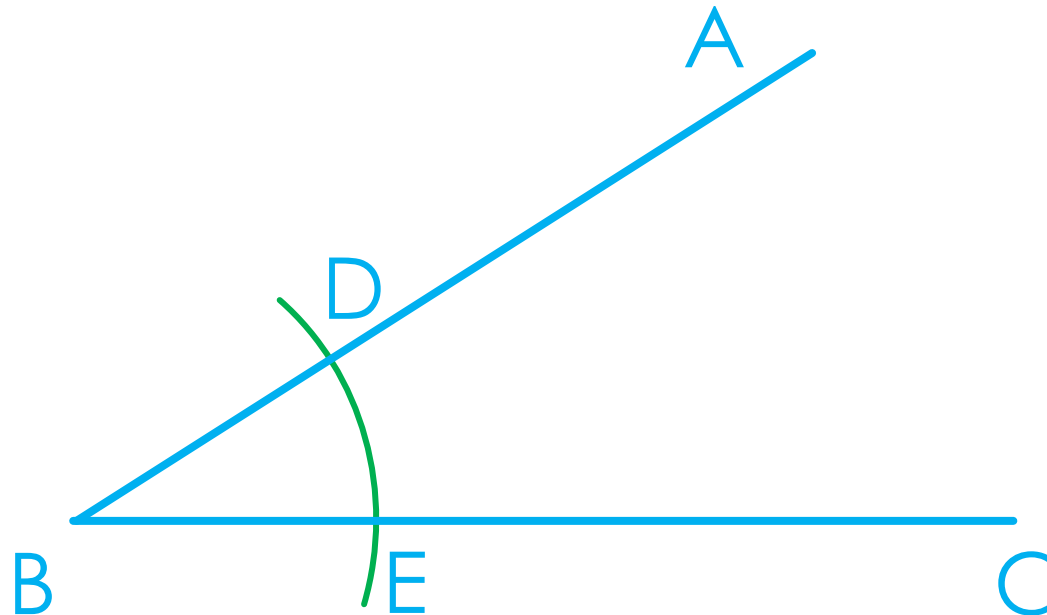
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Step 1

- **Question: Bisecting angle ABC**
- Draw an arc from B that will intersect line segment AB at D and BC at E



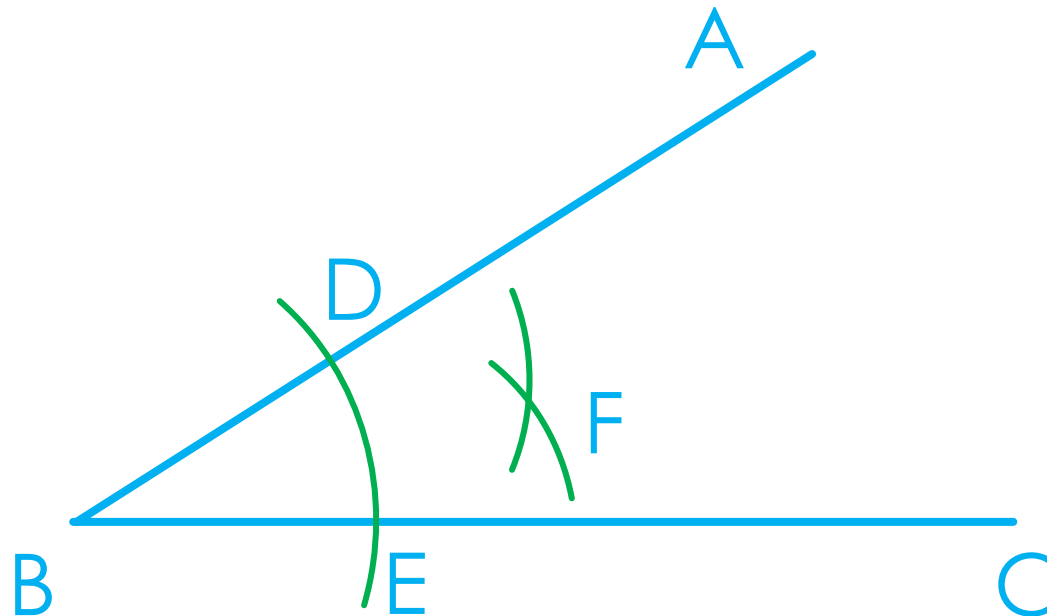
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Step 2

- **Question: Bisecting angle ABC**
- Strike two similar sized arcs from D and E respectively to intersect at point F



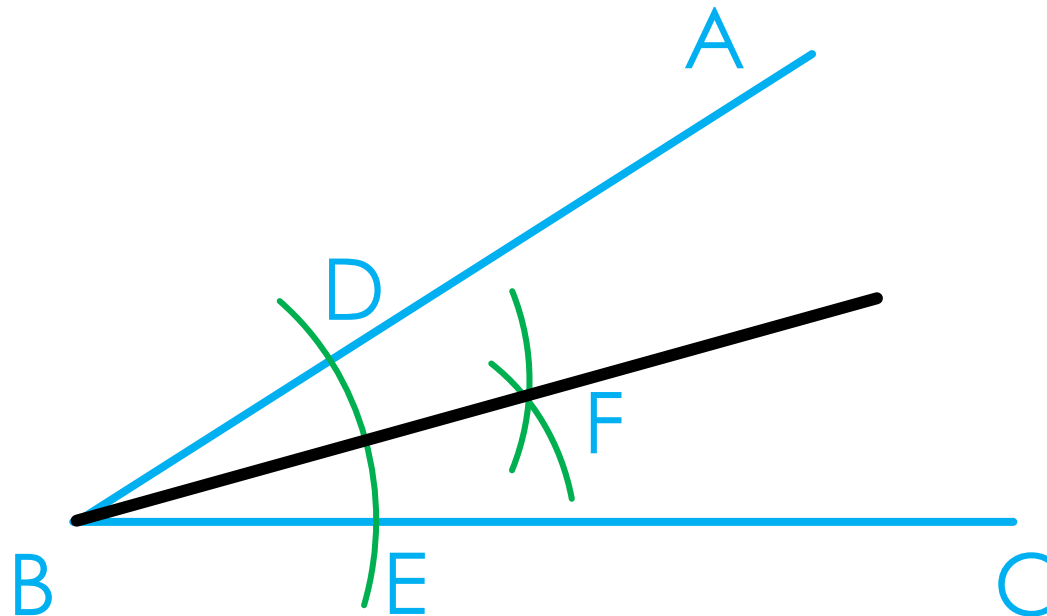
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Step 3

- **Question: Bisecting angle ABC**
- Join Intersection point at B with the intersection point at F to bisect angle ABC



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Task 1.3.4

- On the prepared A3 drawing sheet (Task 1.3.3), draw angle ABC (55°) with line segment AB 75mm in length and line segment BC 75mm in length.
- **Question: Bisect angle ABC by means of construction.**
- Show all construction lines.
- Measure and note the bisected angle.
- Name this task 1.3.4