

EGD Grade 10

Geometric Constructions

Construct a 30° angle from a point on a line

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Geometric Constructions

Question

- Draw an angle of 30° from point A on line segment BC by means of construction



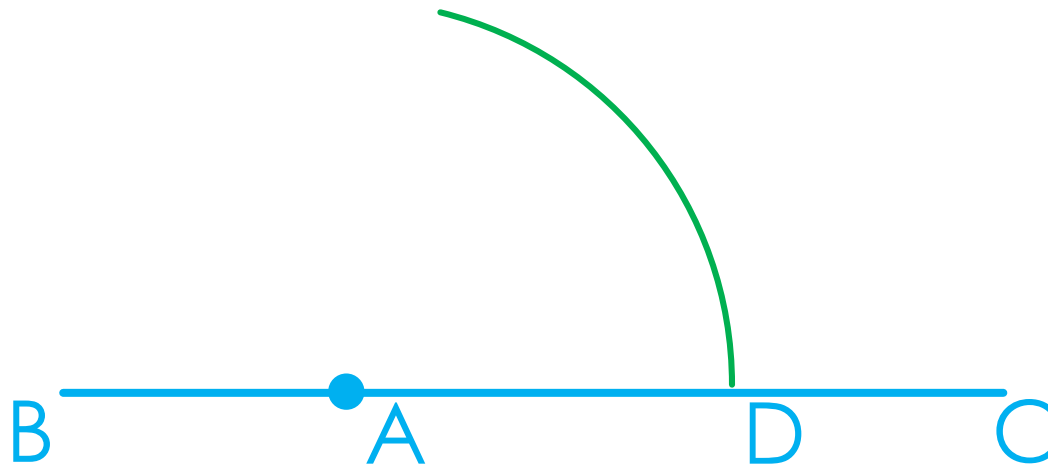
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Step 1

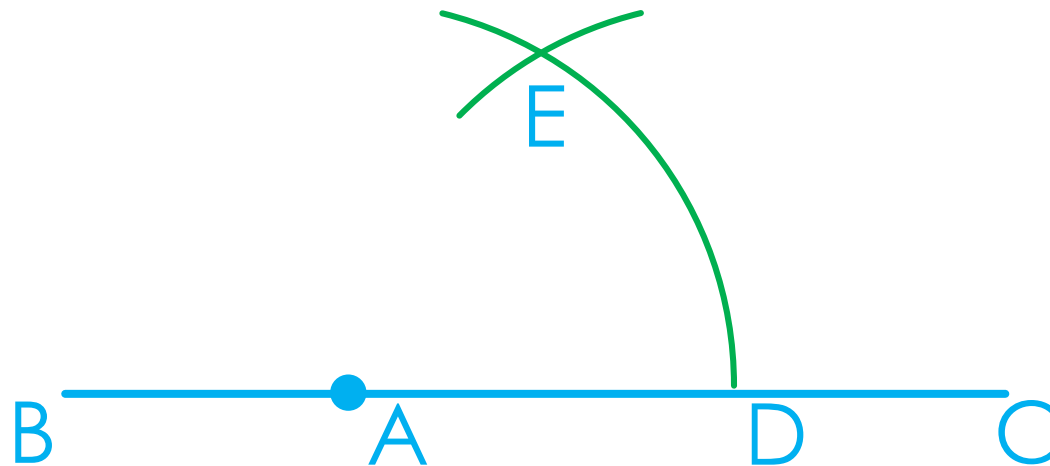
- **Question:** 30° angle from point A
- Draw an arc of any size from A to intersect line segment BC at D



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Step 2

- **Question:** 30° angle from point A
- At the same size as arc AD, strike an arc from intersection point D to intersect arc AD at E



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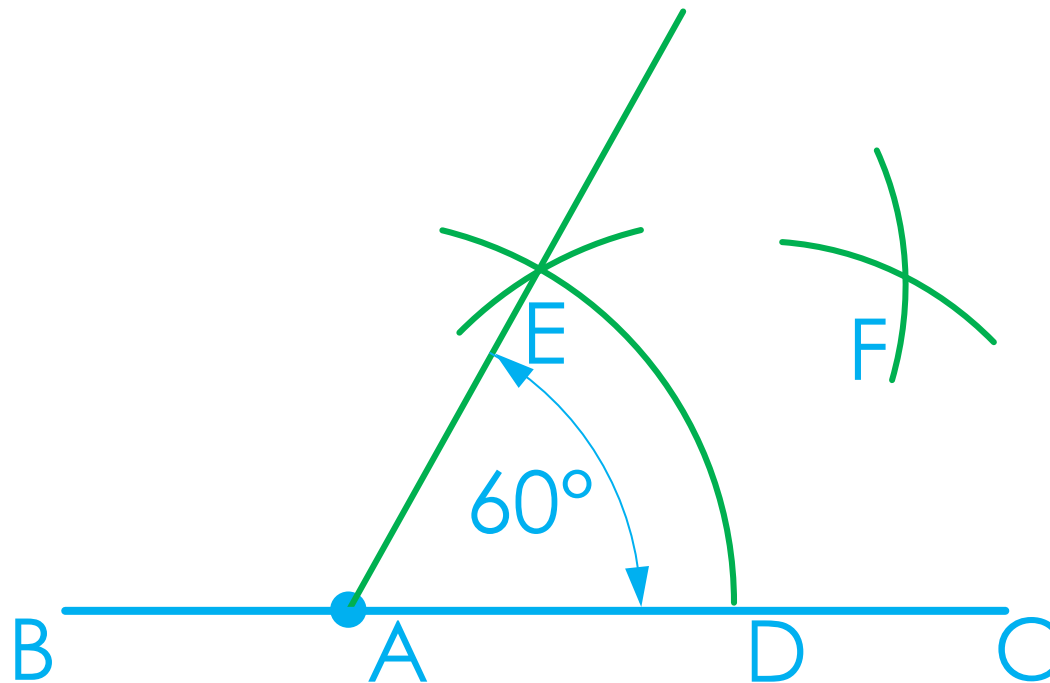
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Step 4

- **Question:** 30° angle from point A
- From intersection points D and E strike two arcs of the same size from E and D respectively to join at

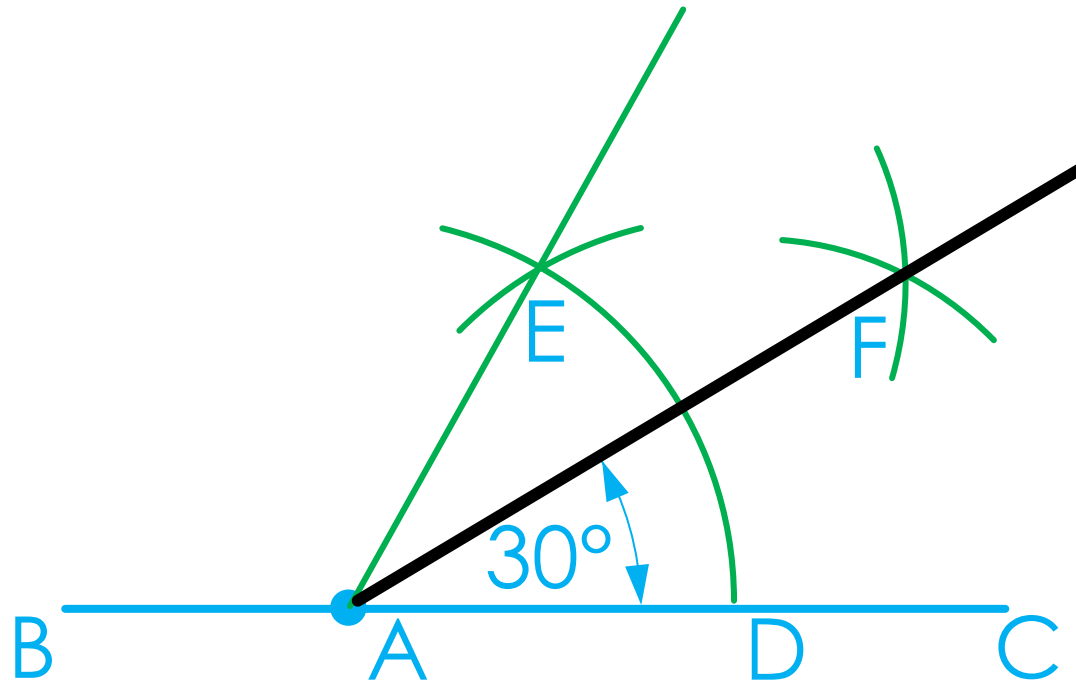
F



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Step 5

- **Question:** 30° angle from point A
- Join point A with intersection point F to complete an angle of 30°



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Geometric Constructions

Task 1.4.1

- On the prepared A3 drawing sheet (Task 1.3.3), draw line segment AB (75mm in length).
- **Question:** Draw an angle of 30° from point A on line segment AB by means of construction.
- Show all construction lines.
- Name this task 1.4.1

