



EGD Grade 10

Geometric Constructions

Arc through three given points

Developed by: PC Viljoen
Senior Educational Specialist for
Engineering Graphics and Design
Free State Province



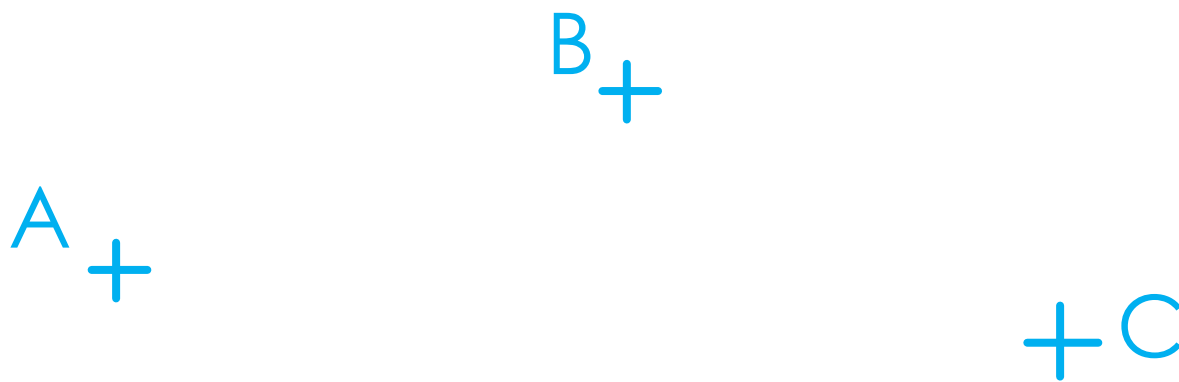
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Geometric Constructions

Question

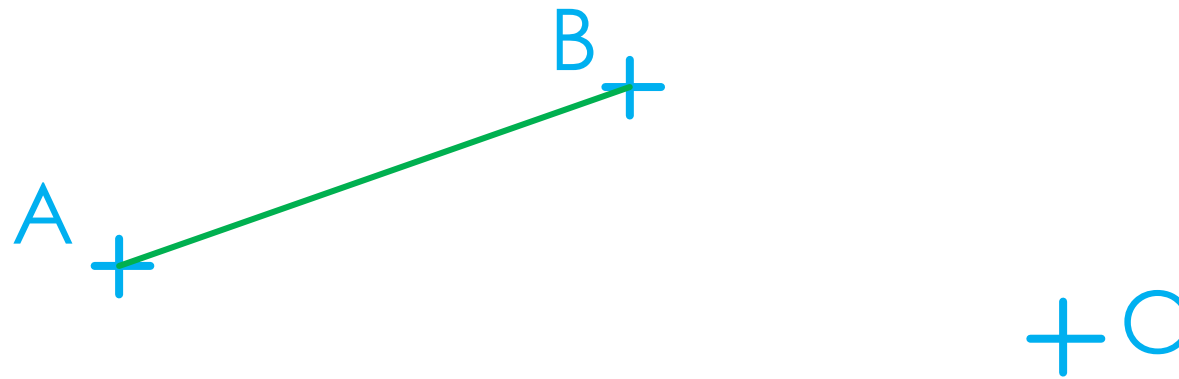
- By means of construction, draw a common arc intersecting three given points



Geometric Constructions

Step 1

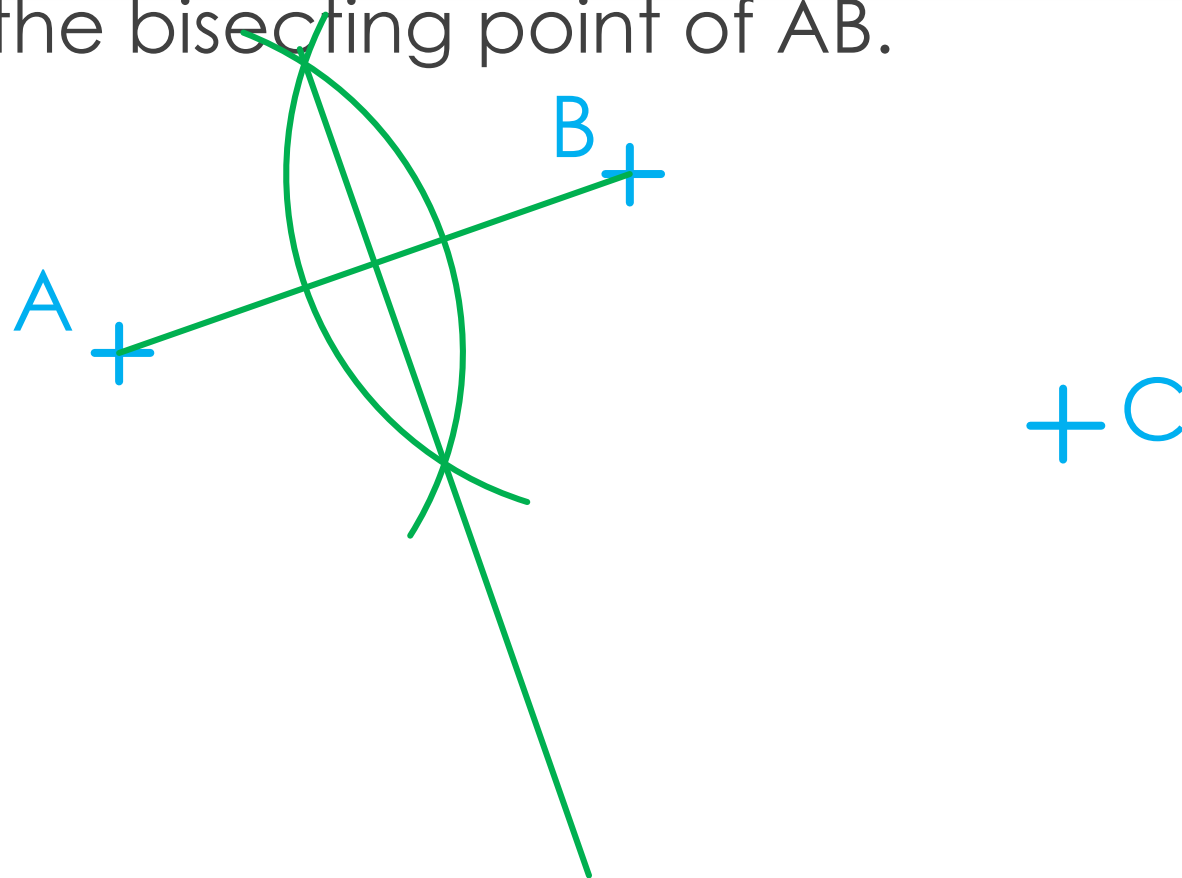
- **Question:** Draw a common arc intersecting three given points
- Join point A with B.



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Step 2

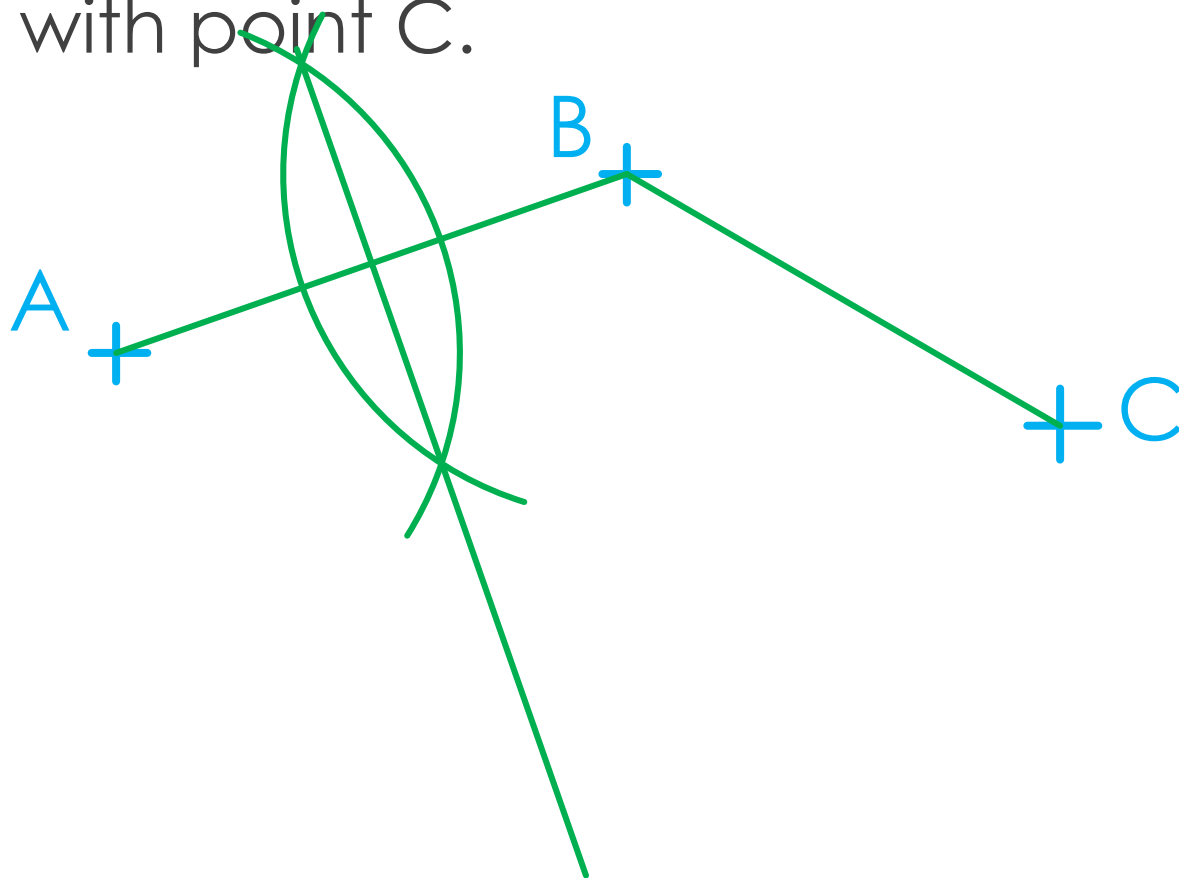
- **Question:** Draw a common arc intersecting three given points
- Determine the bisecting point of AB.



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Step 3

- **Question:** Draw a common arc intersecting three given points
- Join point B with point C.



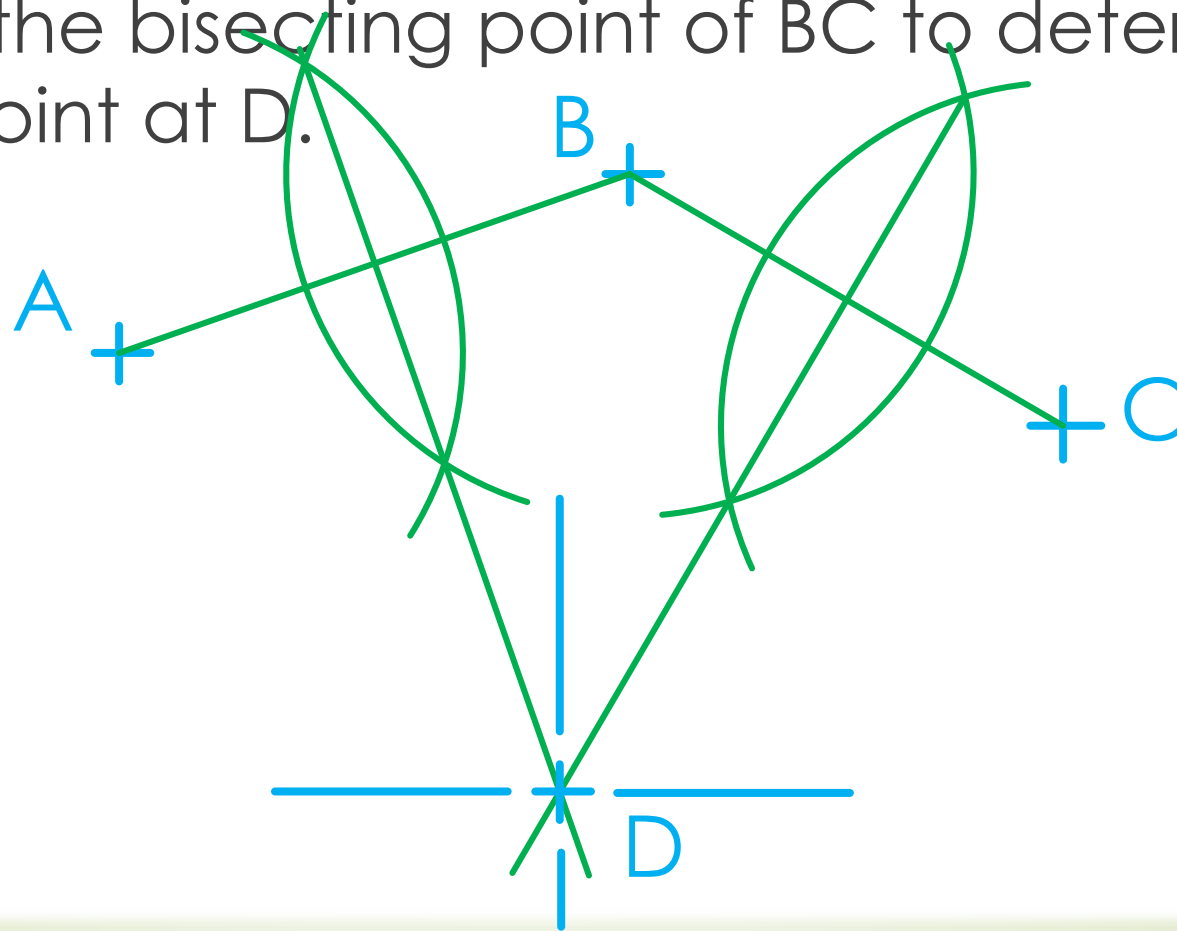
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Step 4

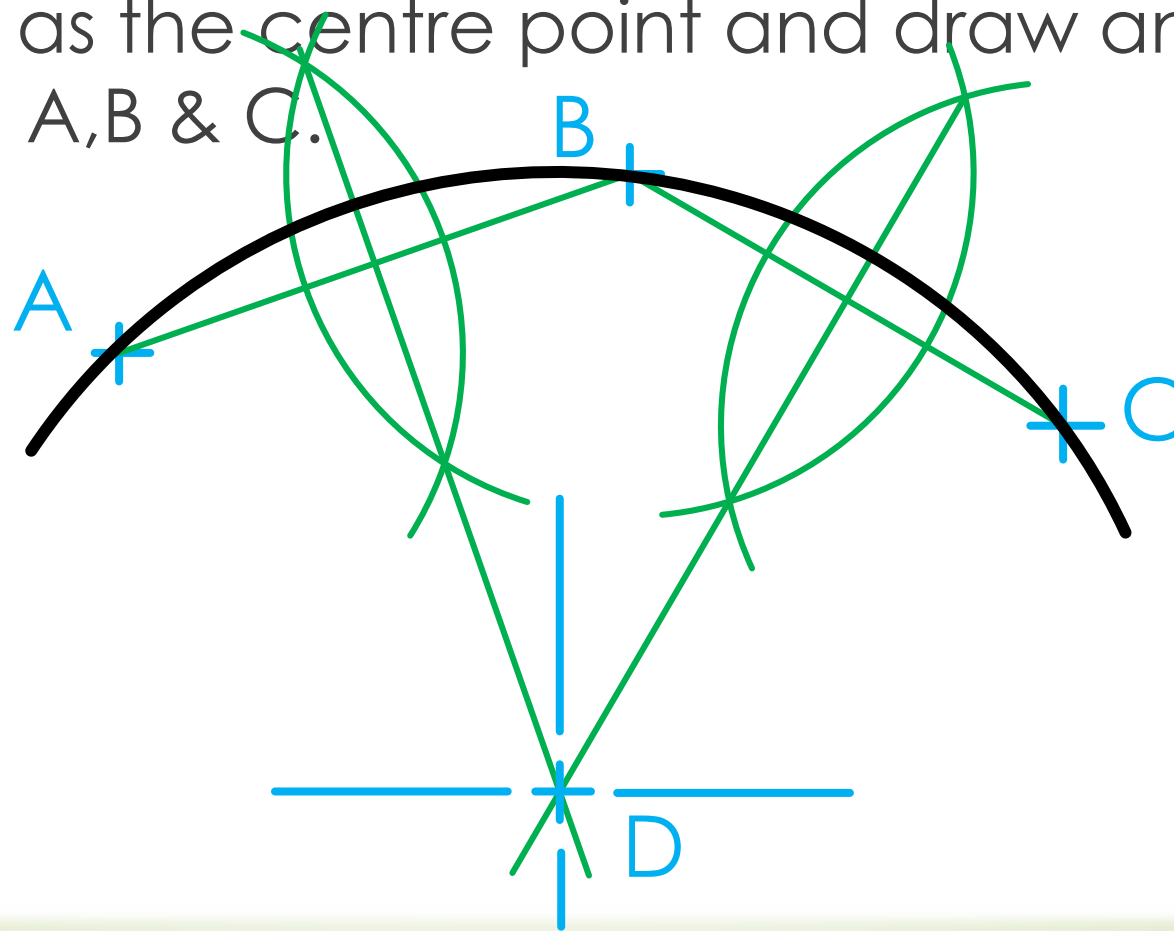
- **Question:** Draw a common arc intersecting three given points
- Determine the bisecting point of BC to determine the bisecting point at D.



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Step 5

- **Question:** Draw a common arc intersecting three given points
- Use point D as the centre point and draw an arc intersecting A, B & C.



Geometric Constructions

Task 1.7.2

- Set up an A3 drawing sheet with a border and a title block.
- Find three points A, B & C ± 50 mm apart from each other at $\pm 30^\circ$.
- **Question: Draw a common arc intersecting the three given points.**
- Show all construction lines.
- Name this task 1.7.2