



Engineering Drawing & CAD

Lecture 02 (continued)

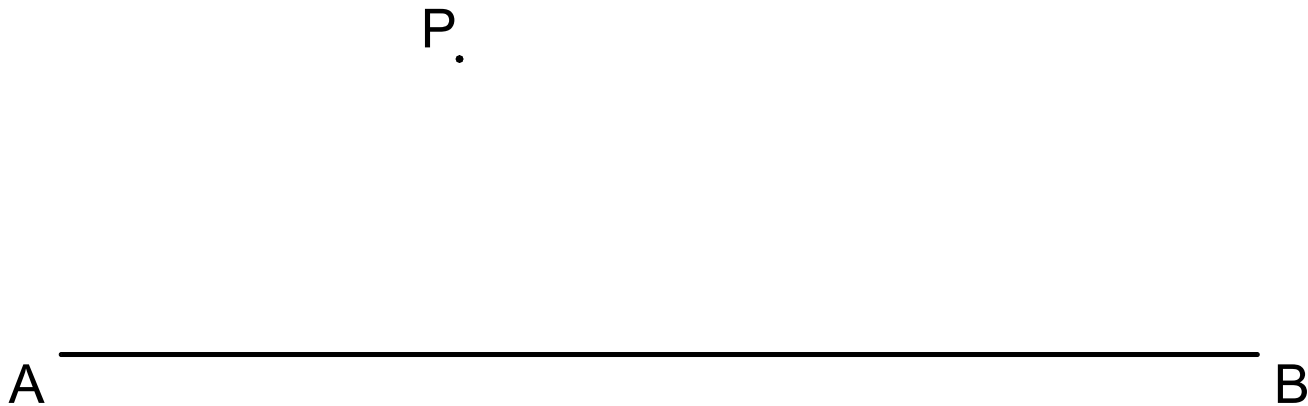
by

Umer Farooq
Feb, 2019

SOME BASIC GEOMETRICAL CONSTRUCTIONS

Problem 12:

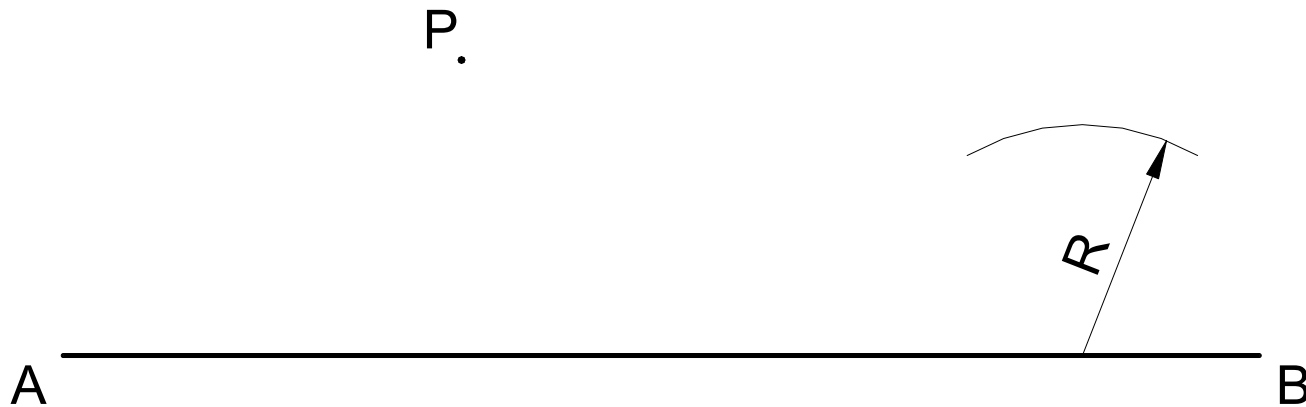
To draw an arc of a given radius, touching a given straight line and passing through a given point.



SOME BASIC GEOMETRICAL CONSTRUCTIONS

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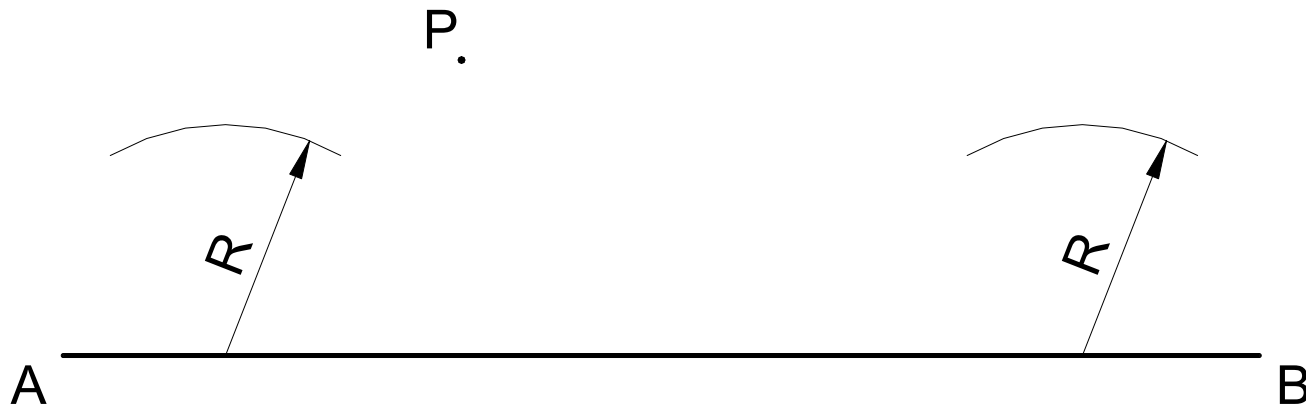
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SOME BASIC GEOMETRICAL CONSTRUCTIONS

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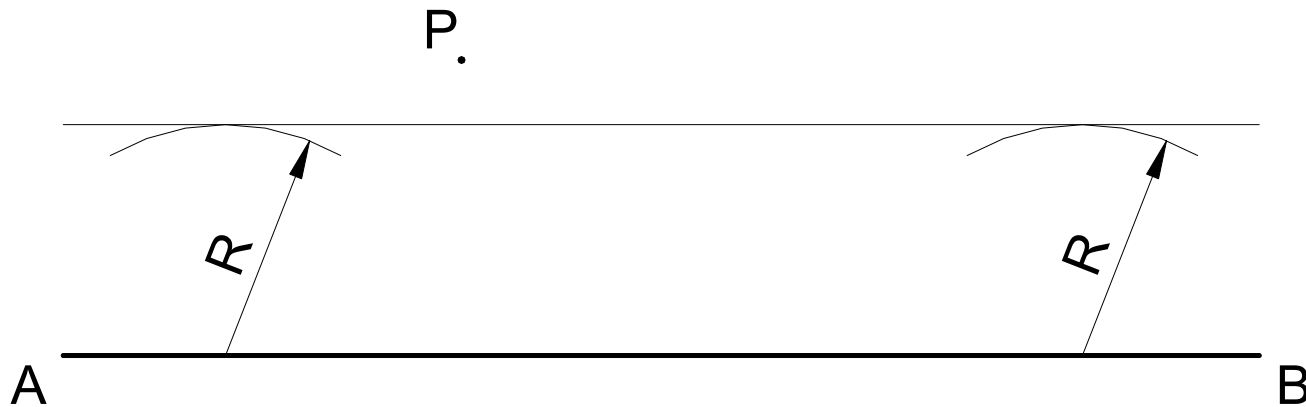
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SOME BASIC GEOMETRICAL CONSTRUCTIONS

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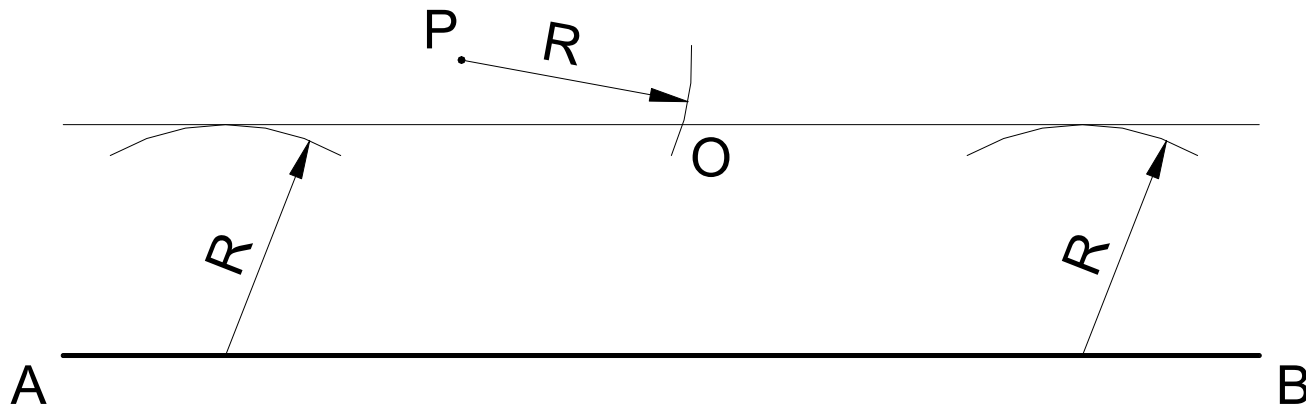
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SOME BASIC GEOMETRICAL CONSTRUCTIONS (Chapter 5)

Problem 12:

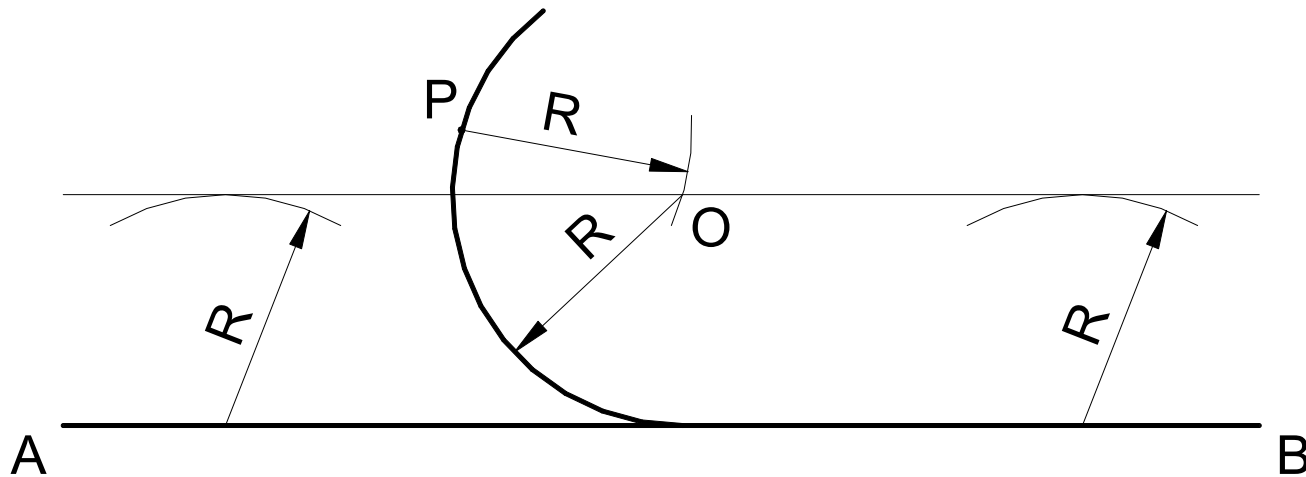
To draw an arc of a given radius, touching a given straight line and passing through a given point.



SOME BASIC GEOMETRICAL CONSTRUCTIONS

Problem 12:

To draw an arc of a given radius, touching a given straight line and passing through a given point.



Problem 18:

To draw a continuous curve of circular arcs passing through any number of given points not in a straight line.

A .

B .

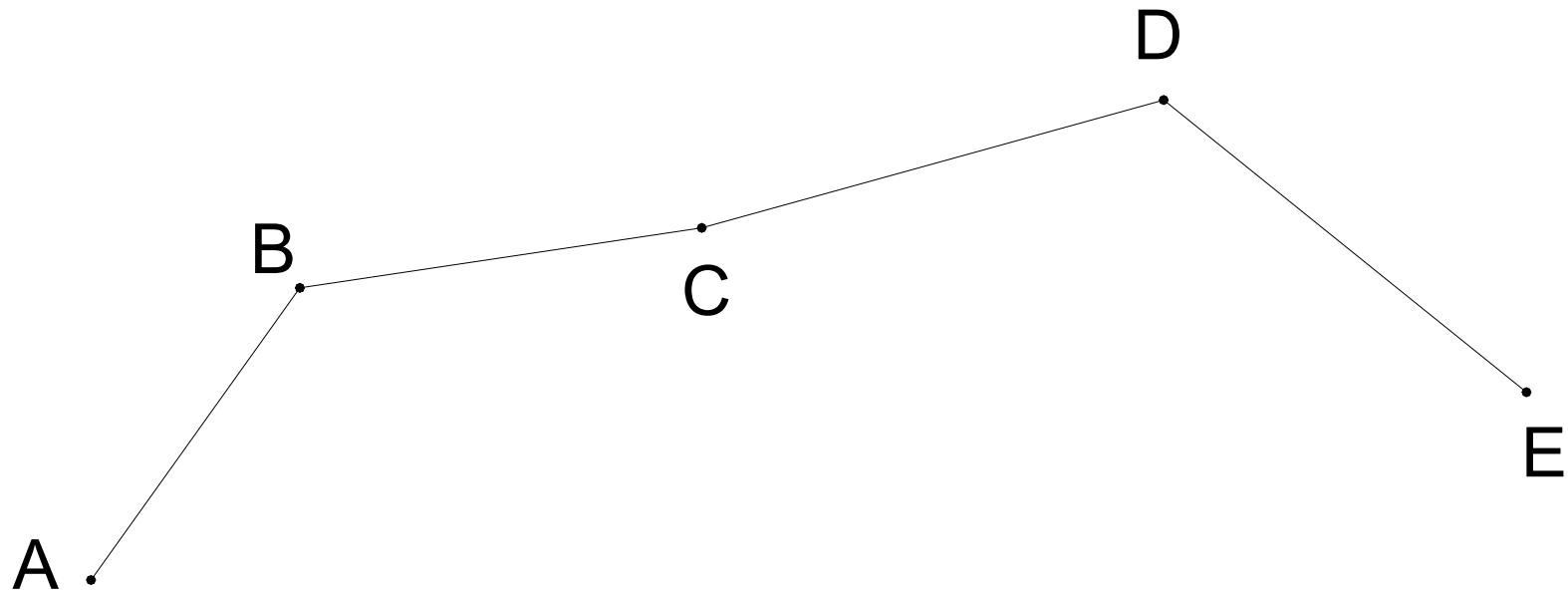
.
C

D
.

.
E

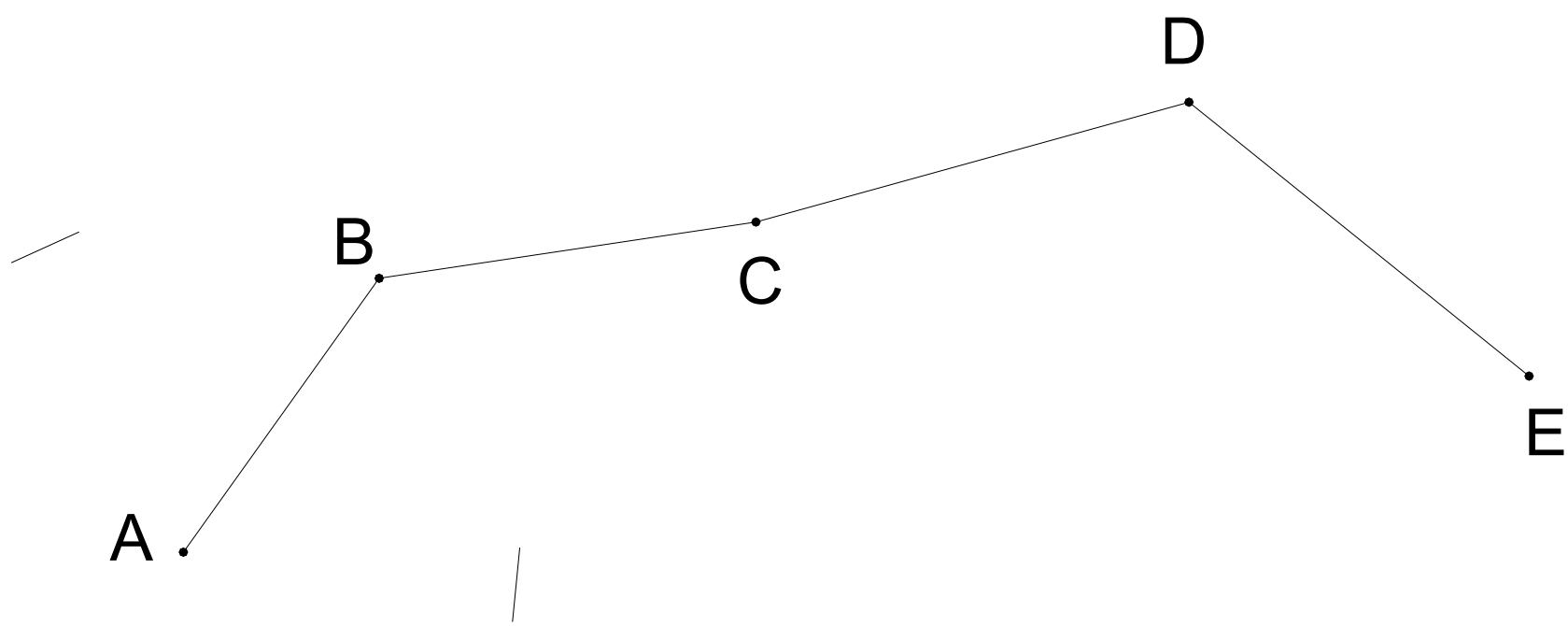
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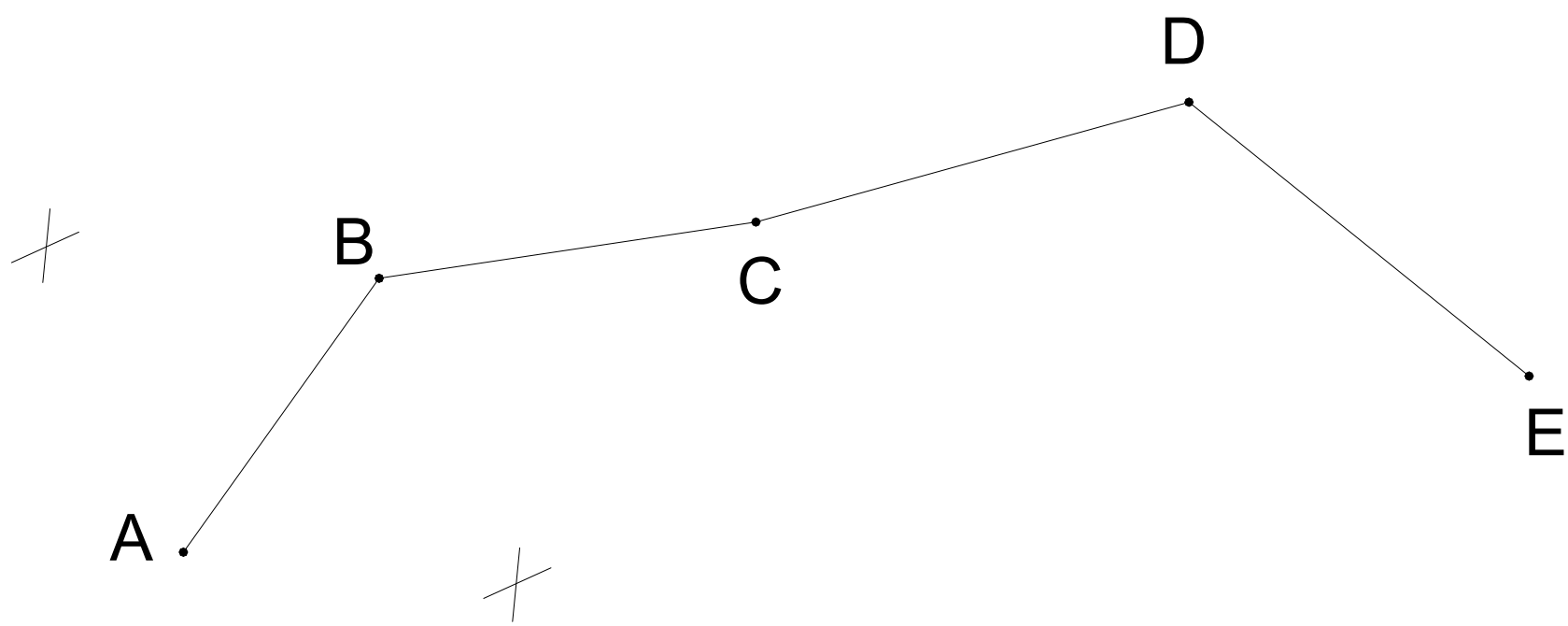
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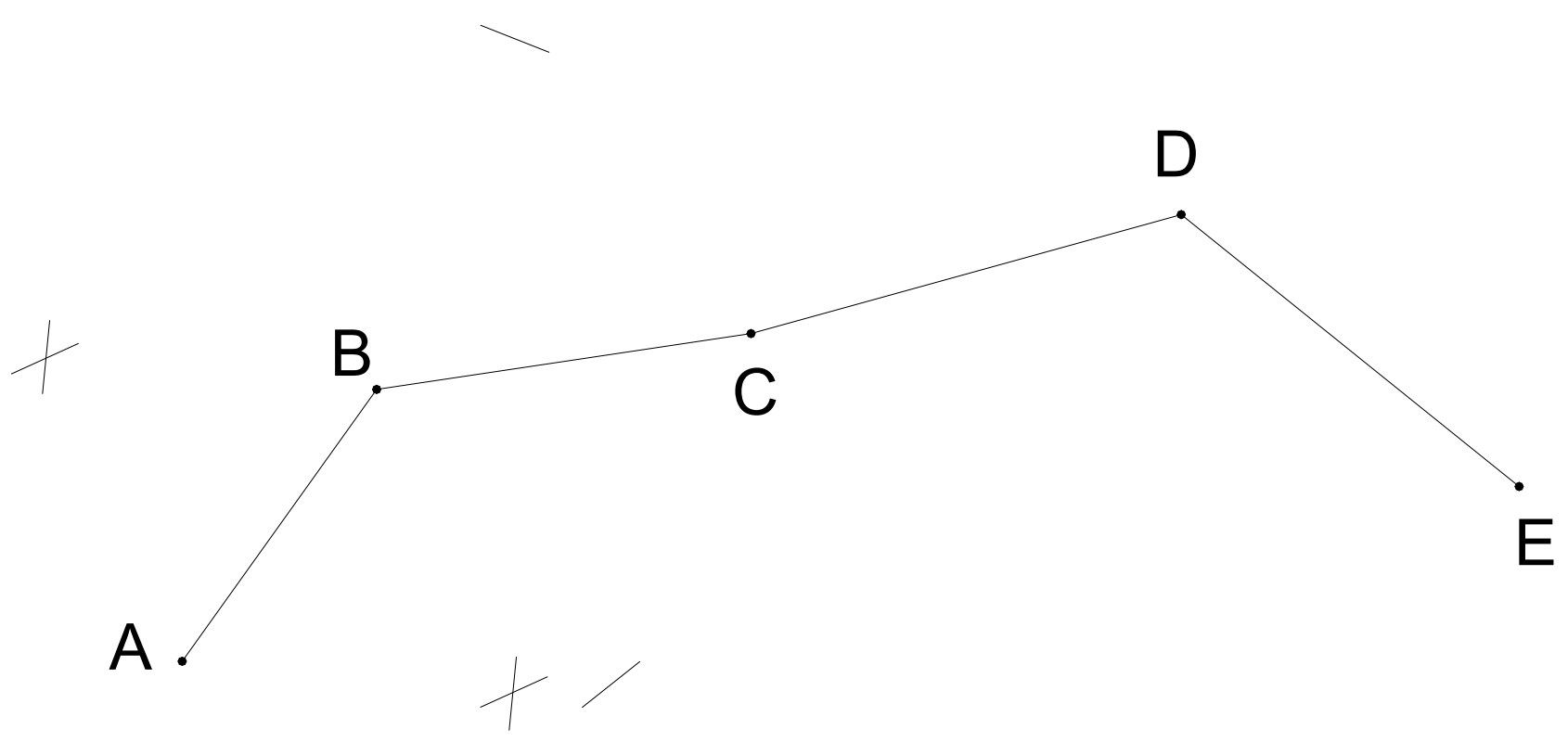
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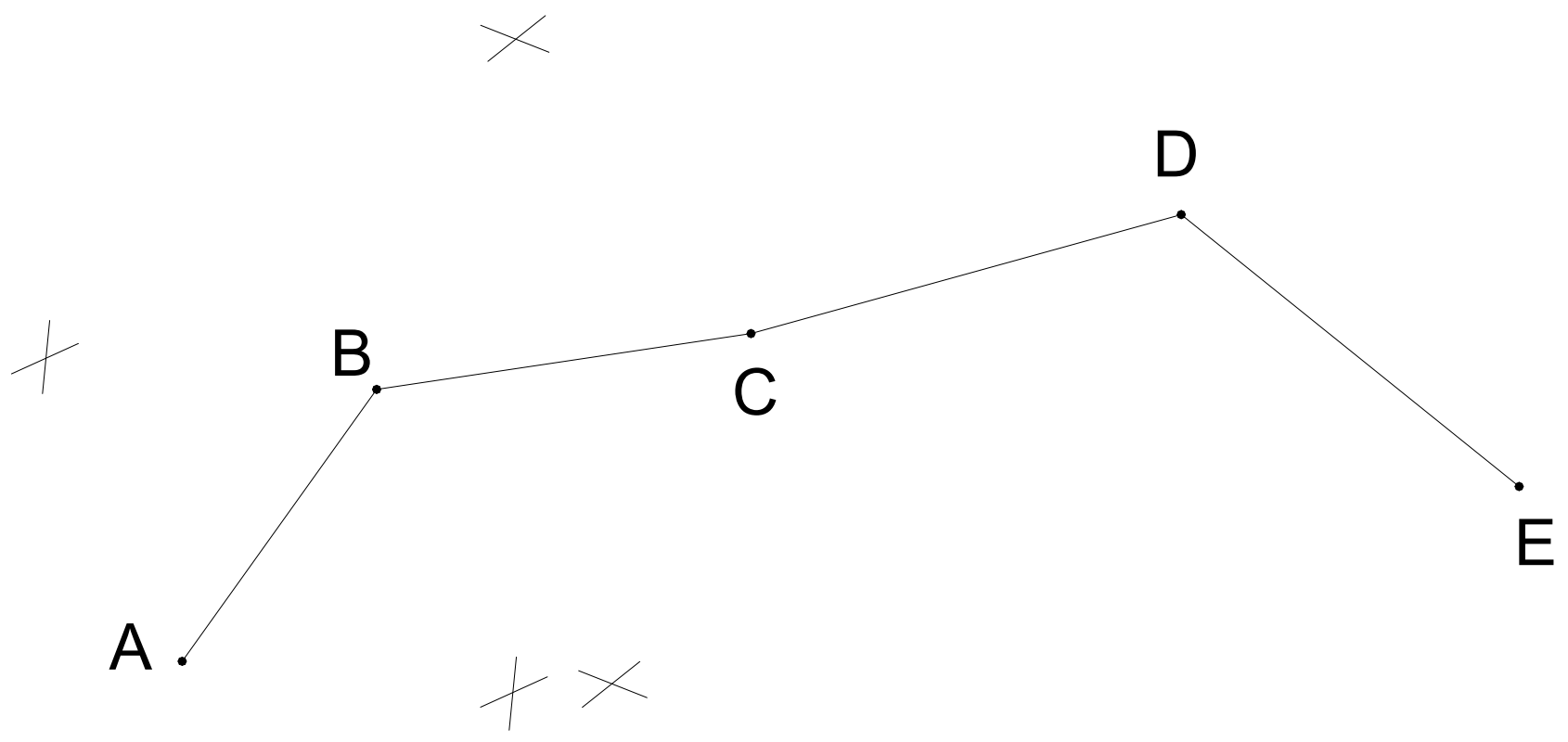
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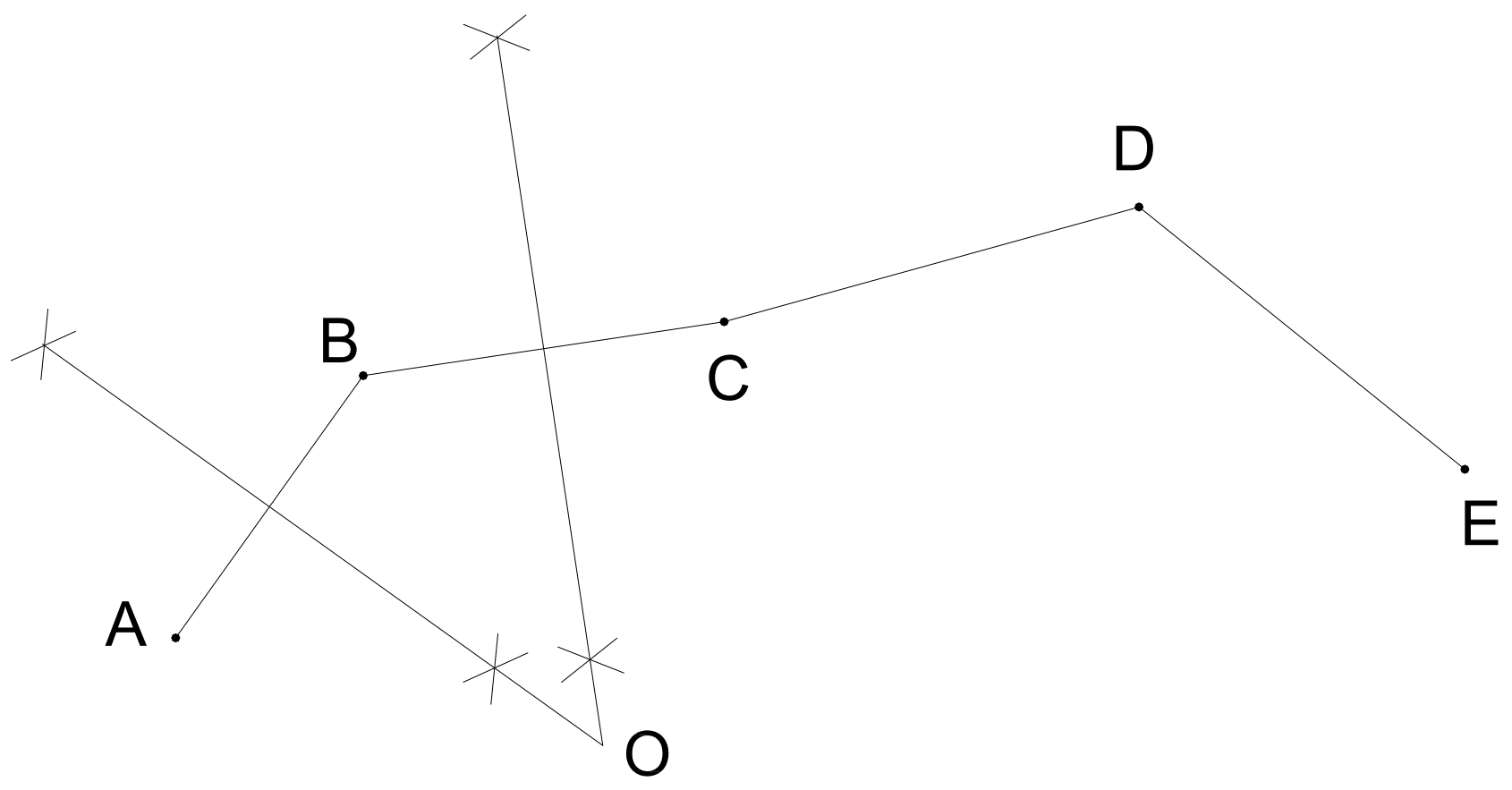
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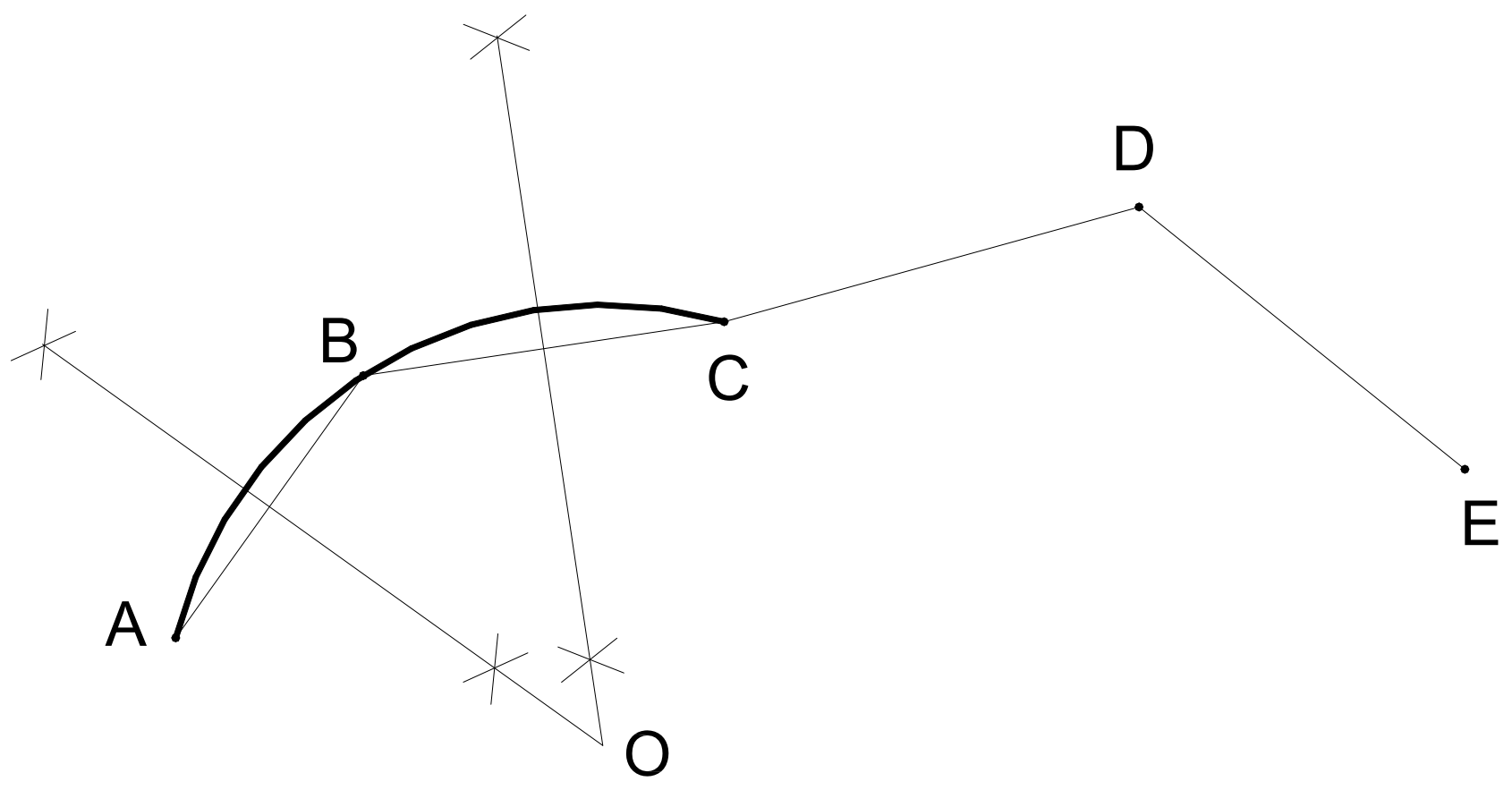
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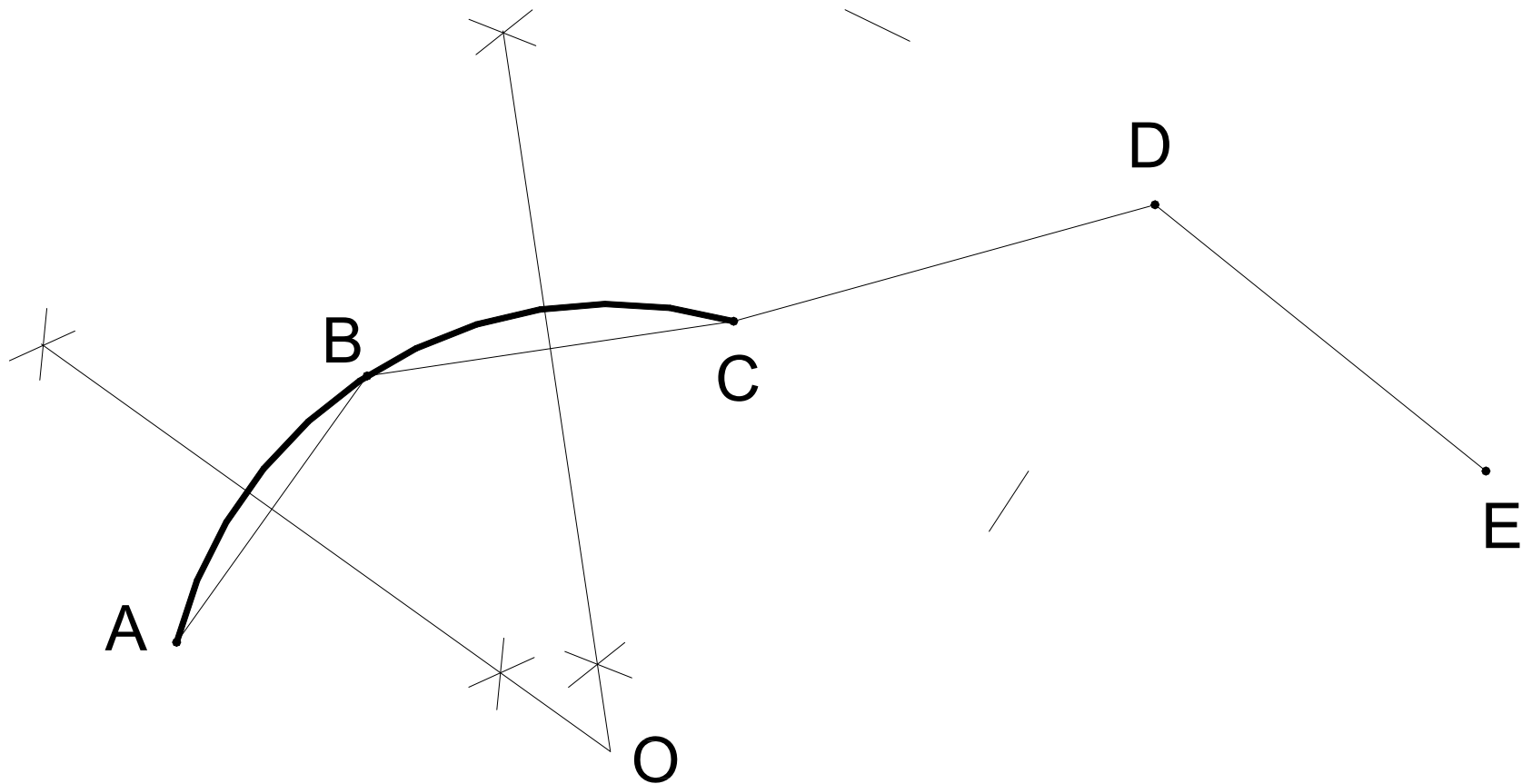
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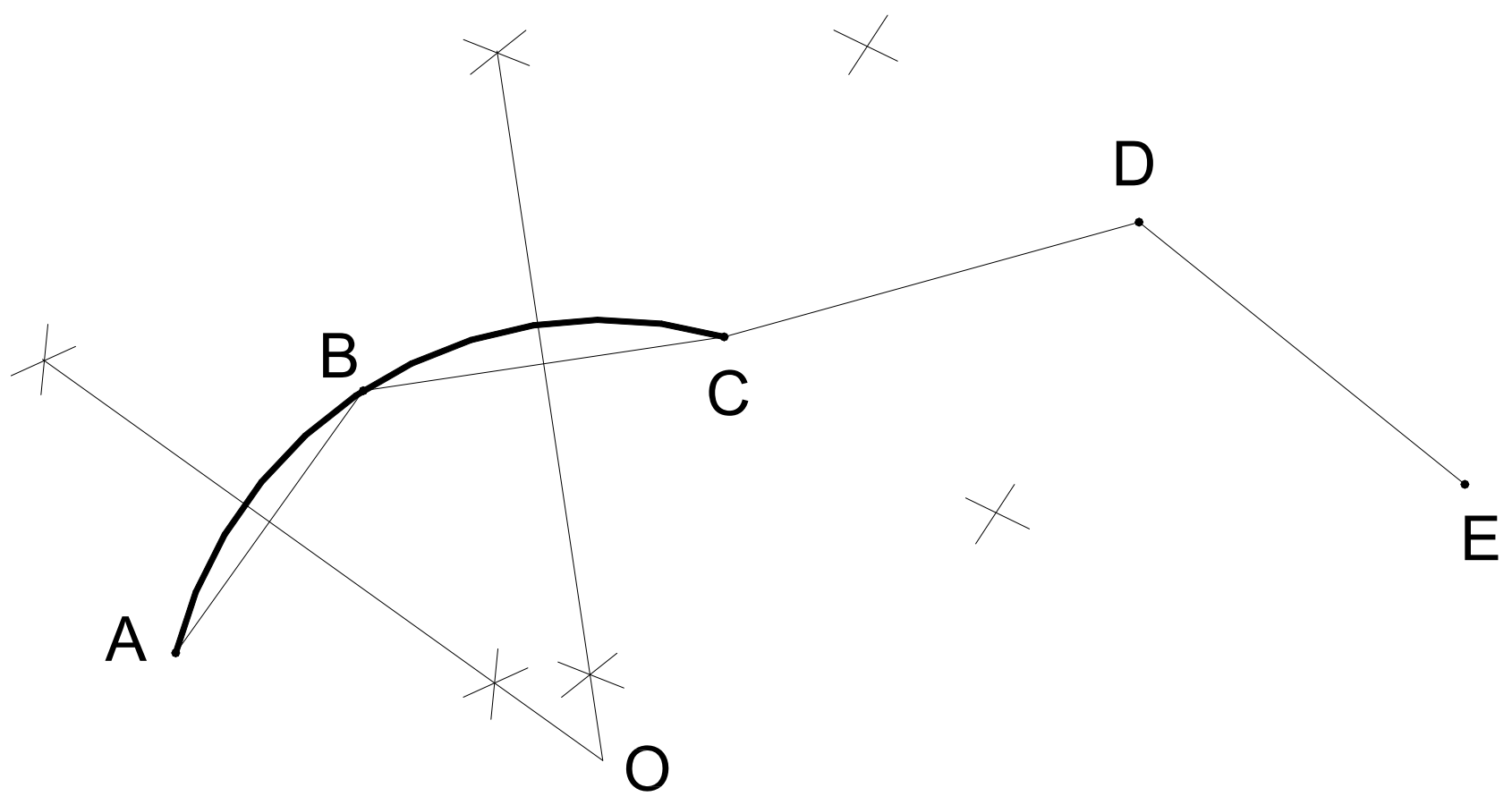
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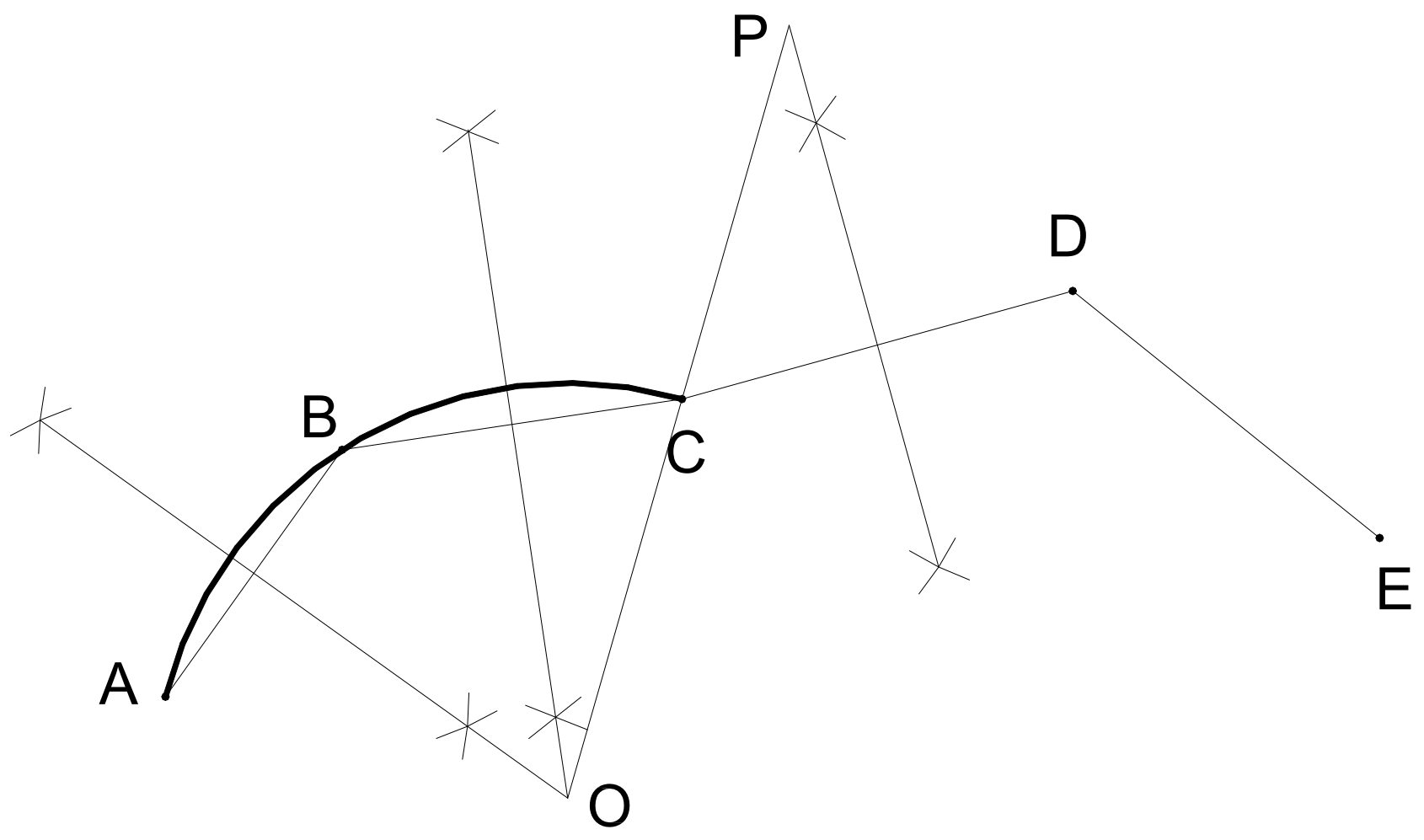
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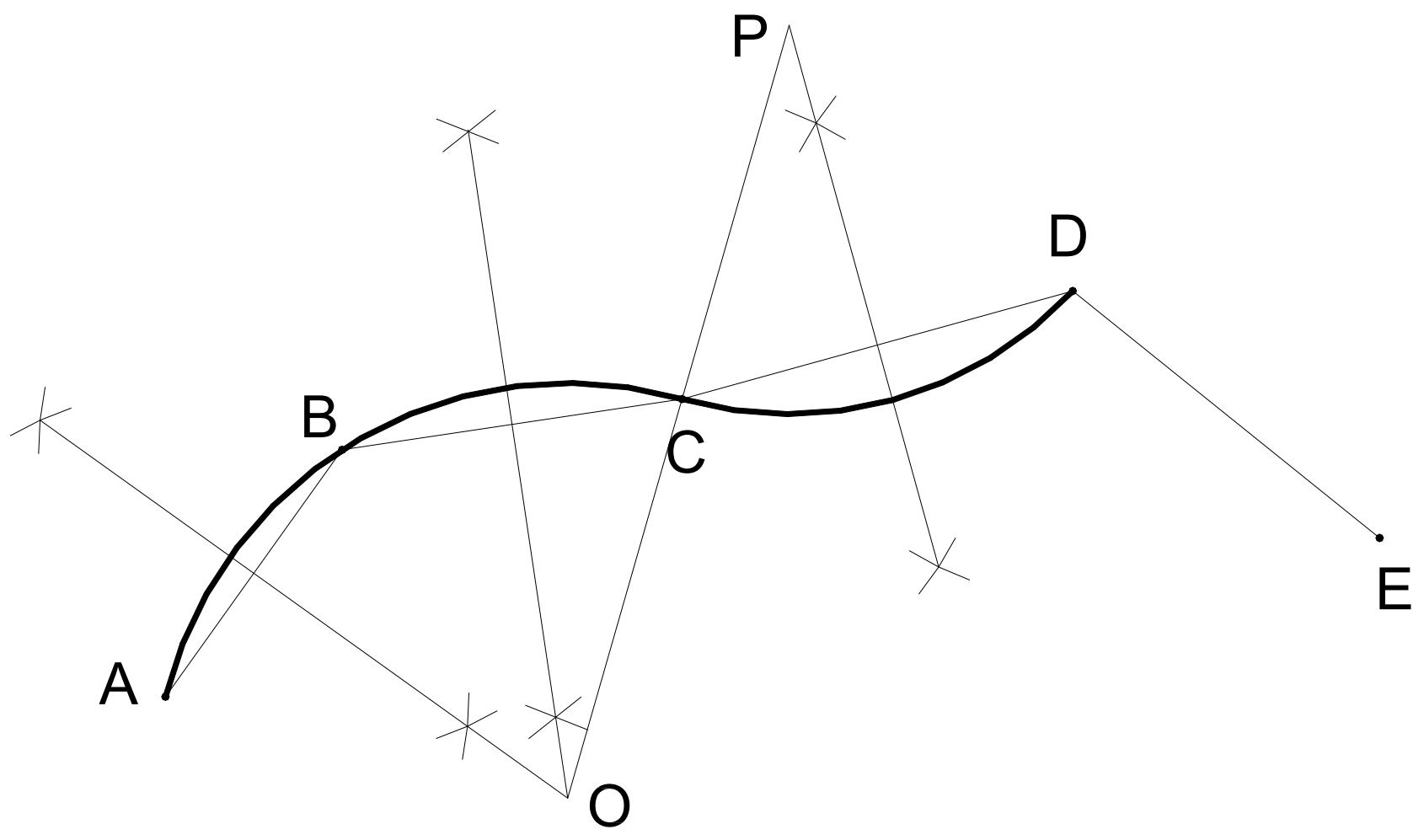
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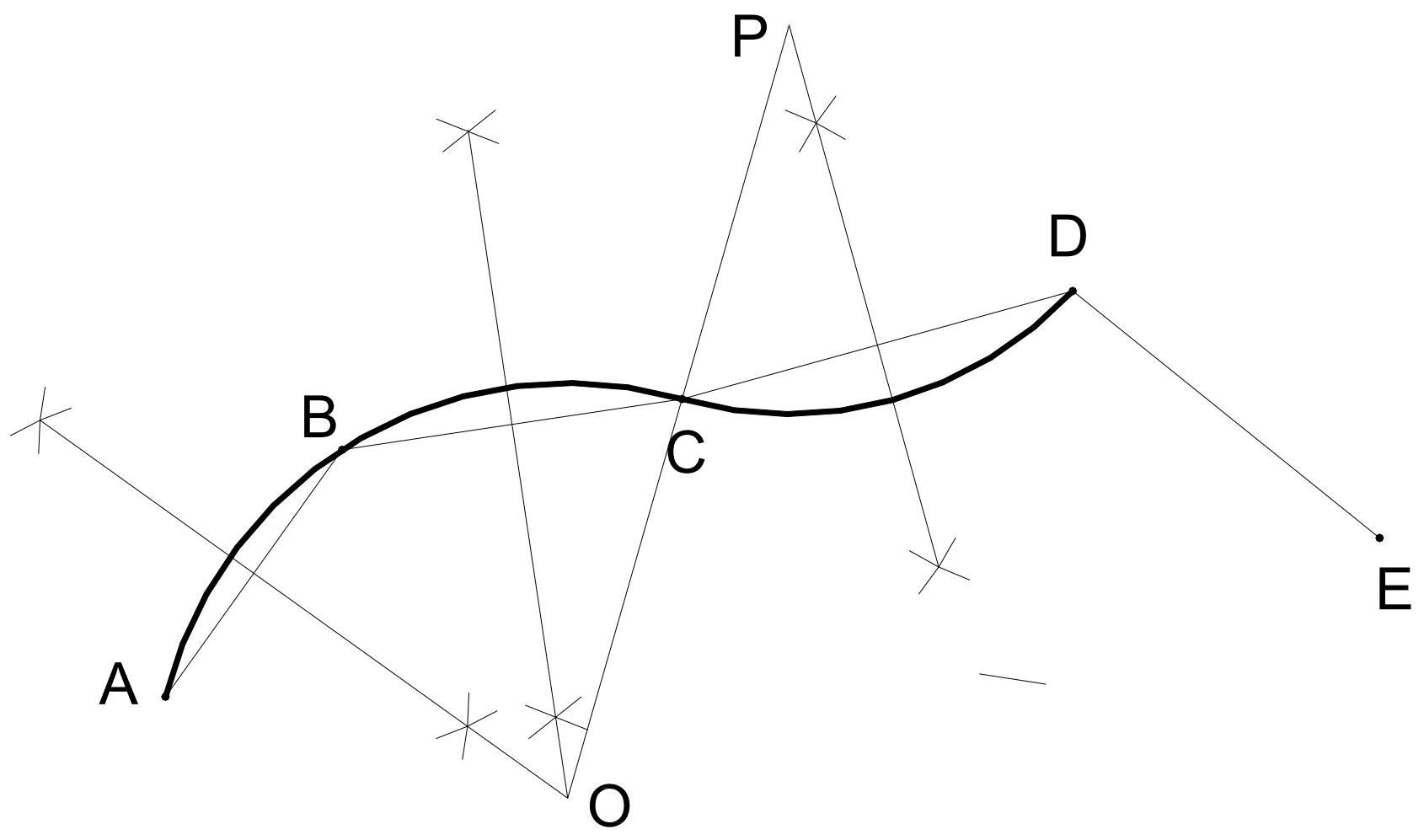
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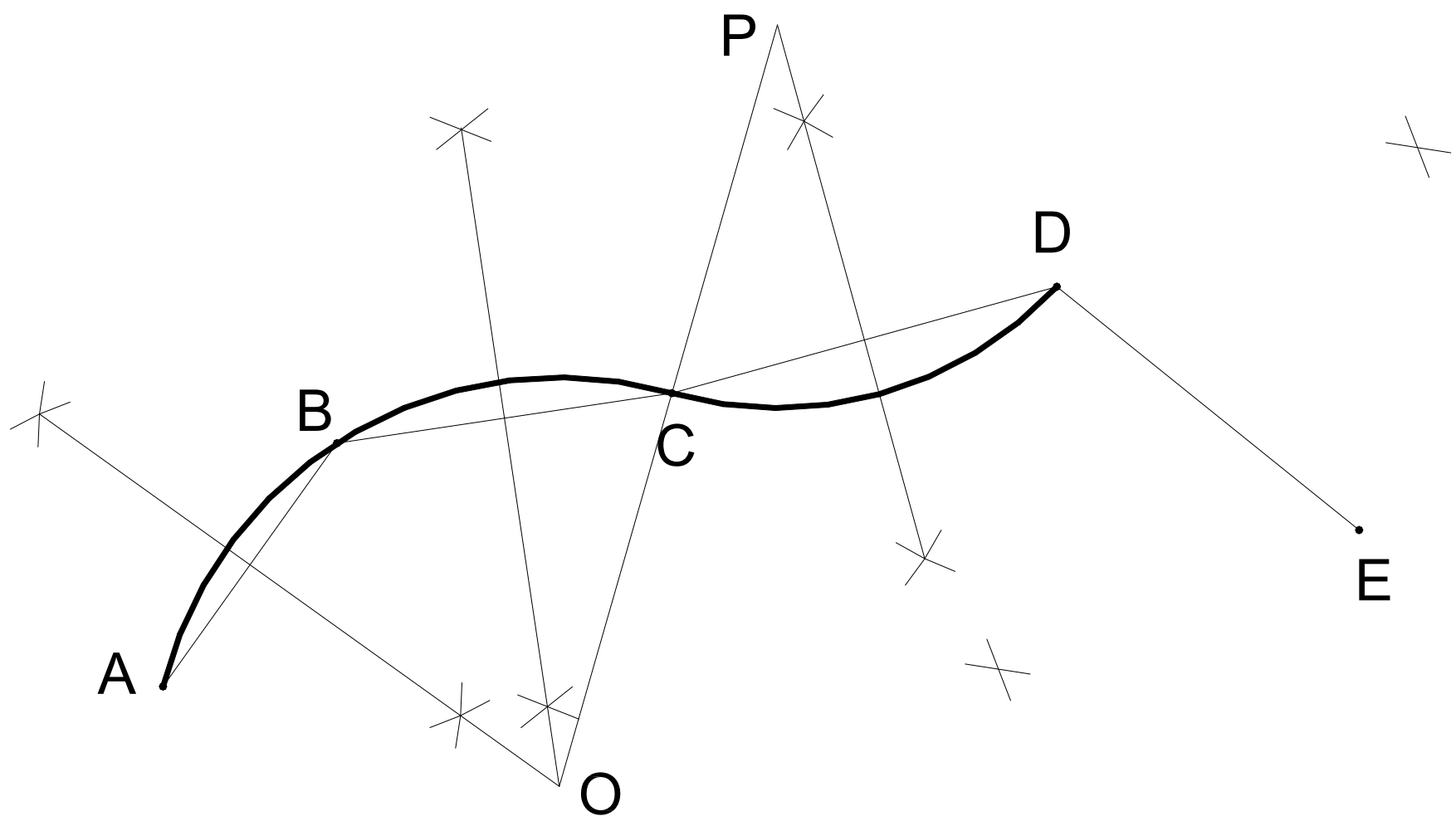
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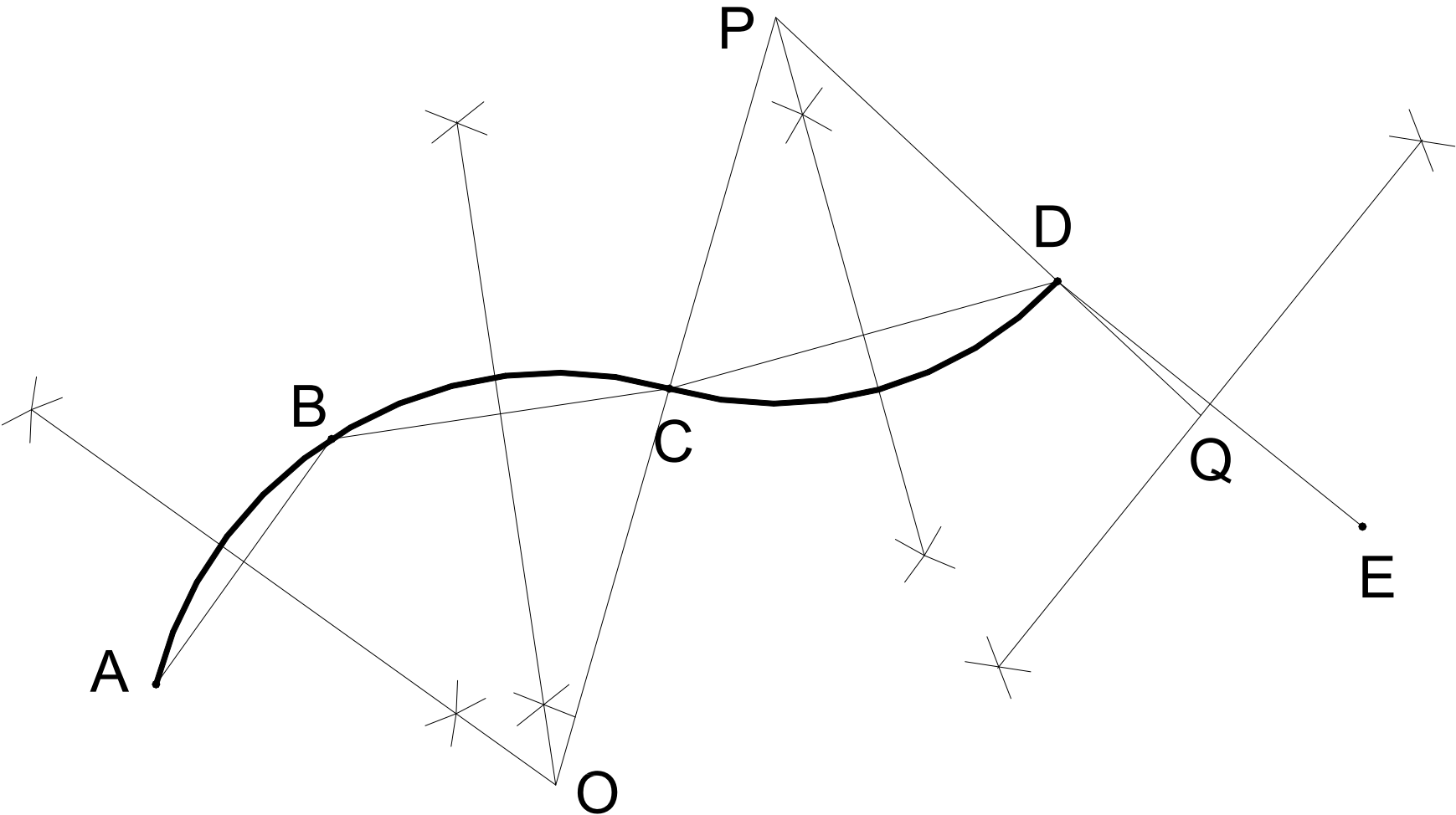
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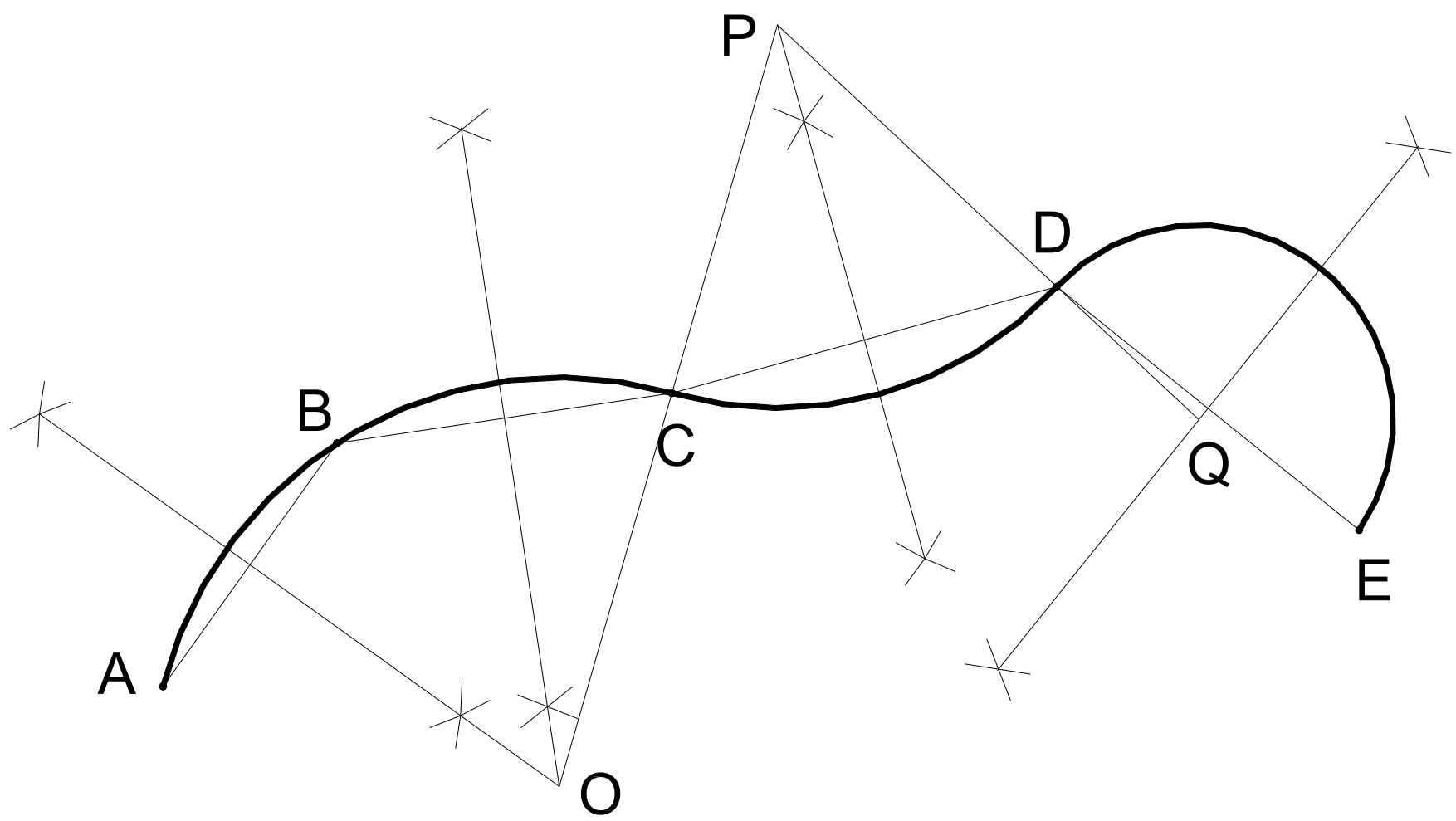
Problem 5.18:

To draw a continuous curve of circular arcs passing through any number of given points not in a straight line.



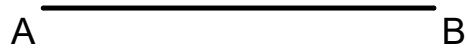
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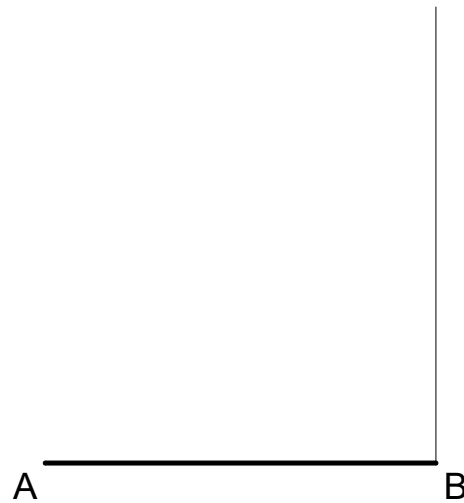
Problem 22:

To draw a regular polygon, given the length of its side.



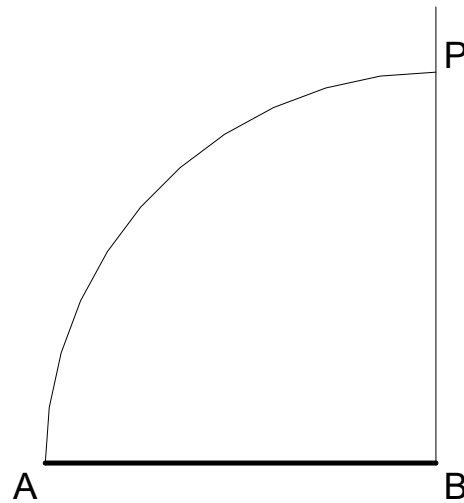
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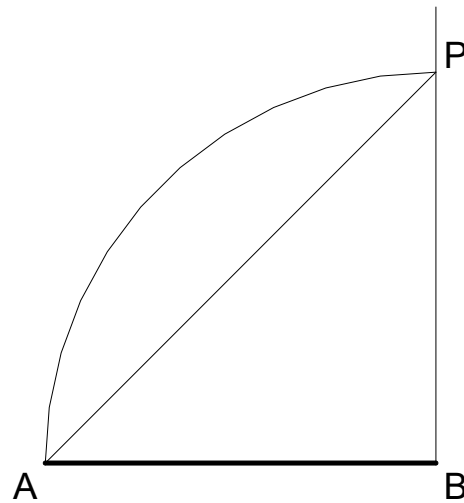
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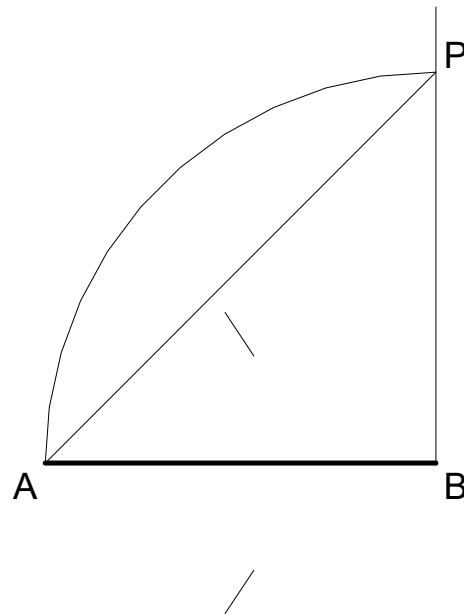
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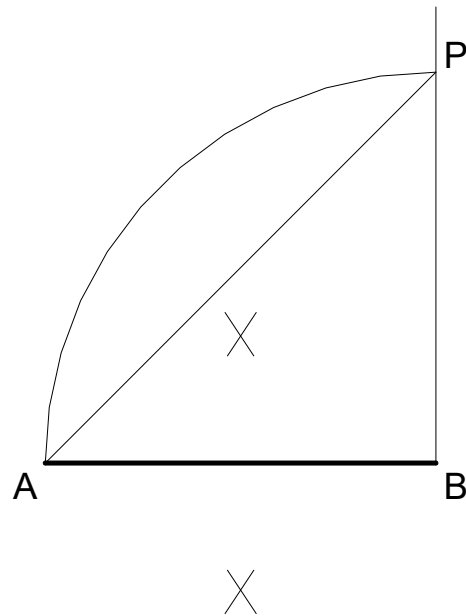
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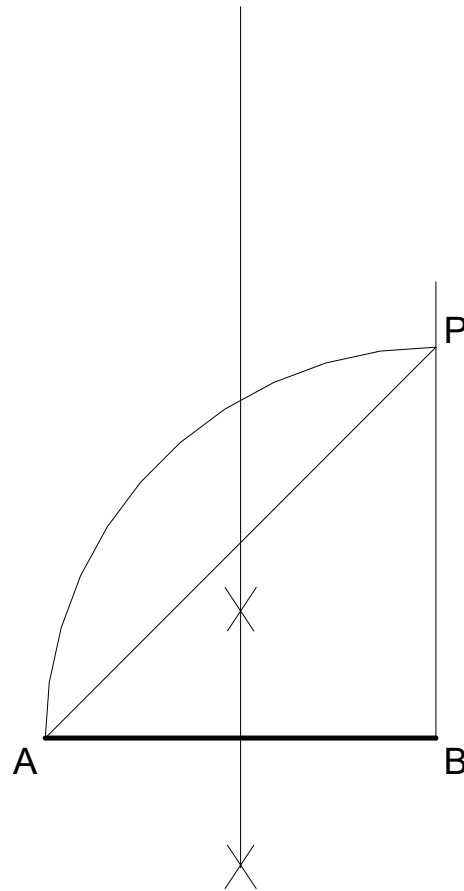
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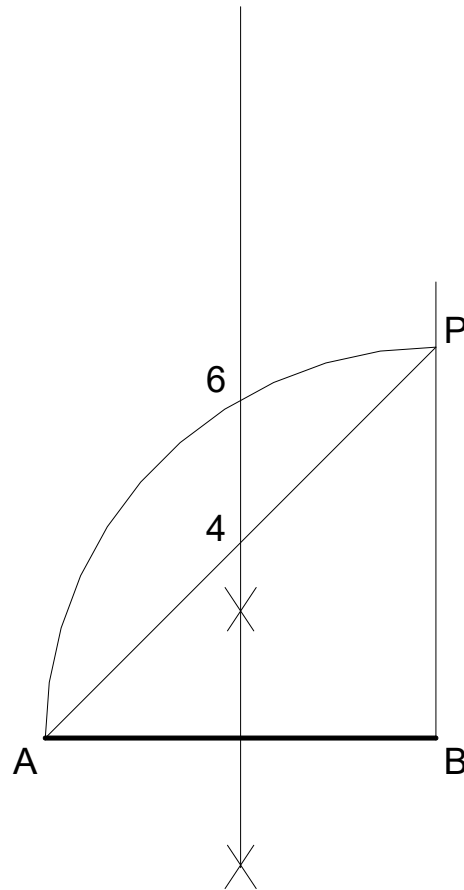
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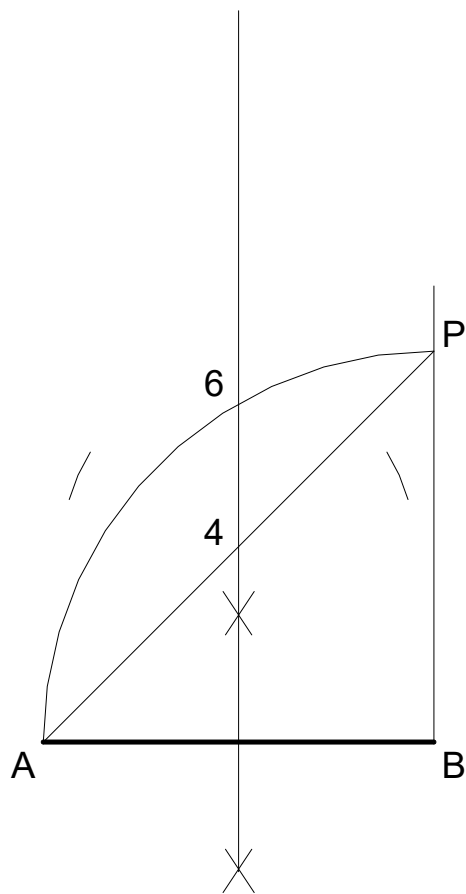
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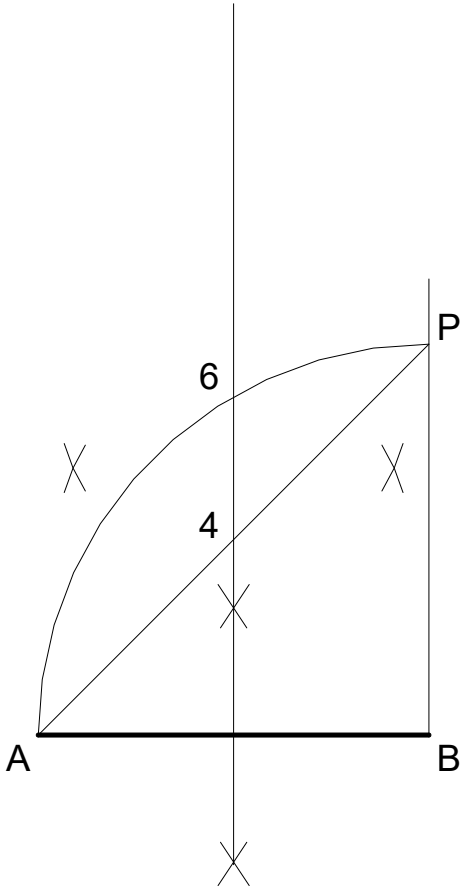
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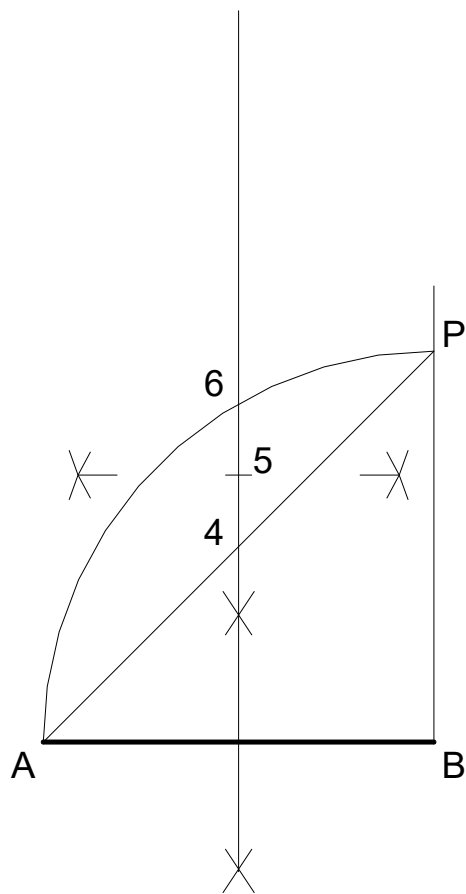
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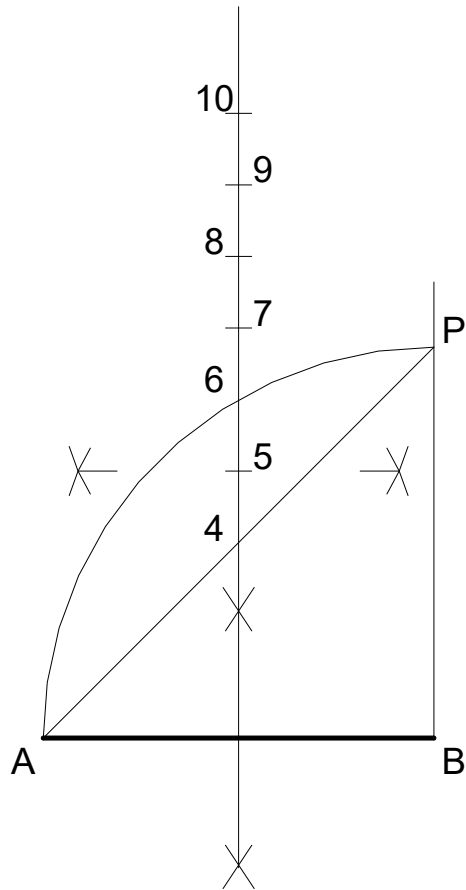
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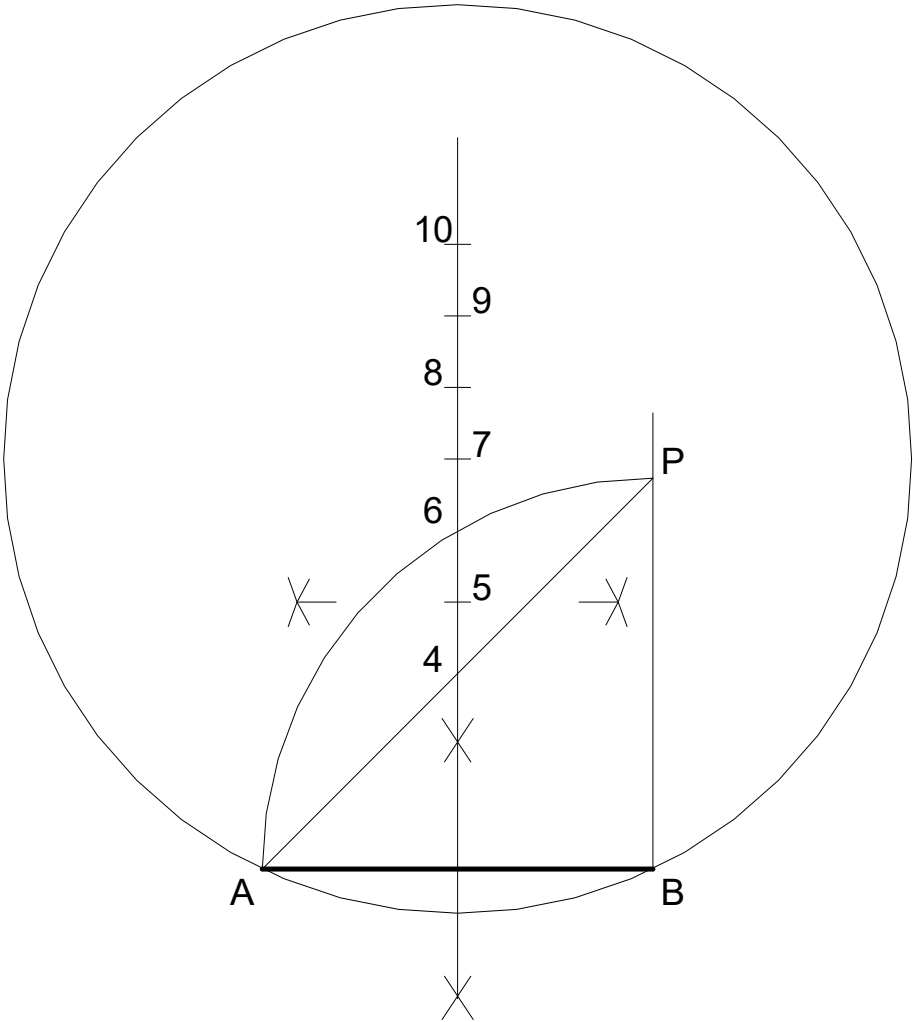
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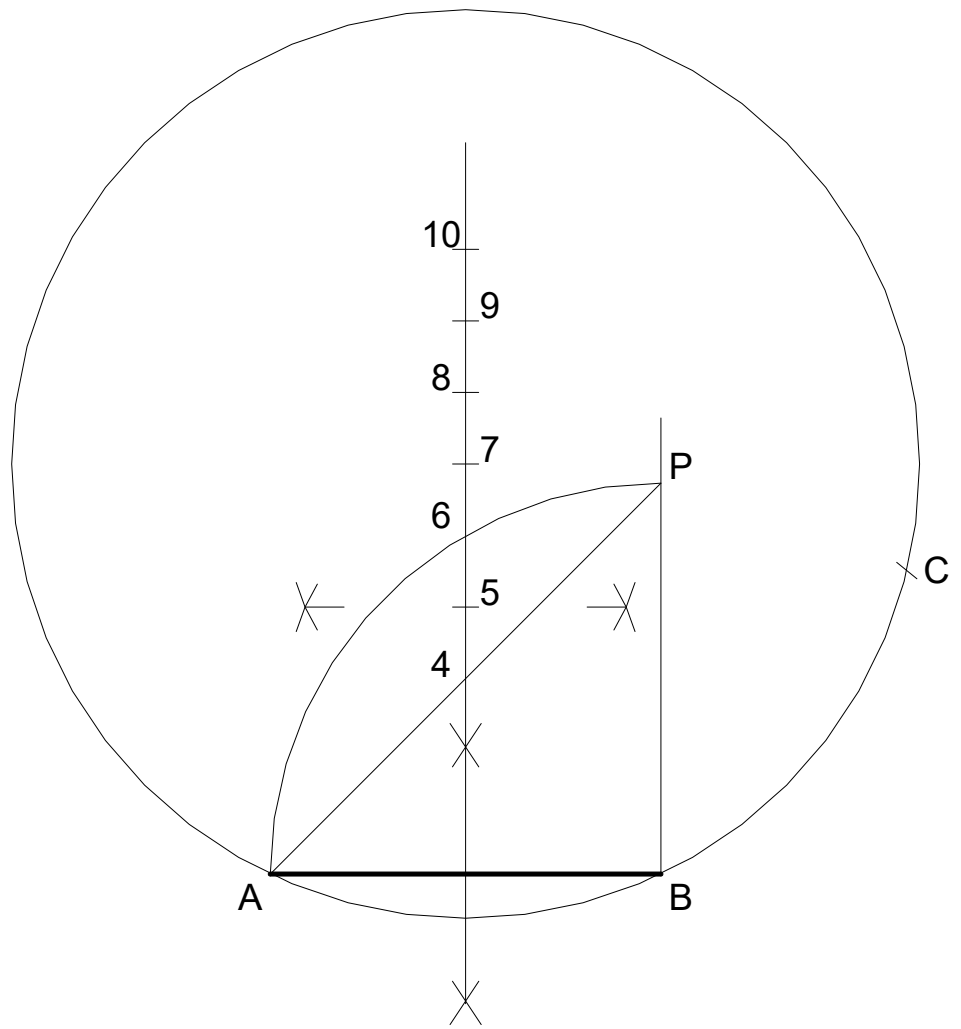
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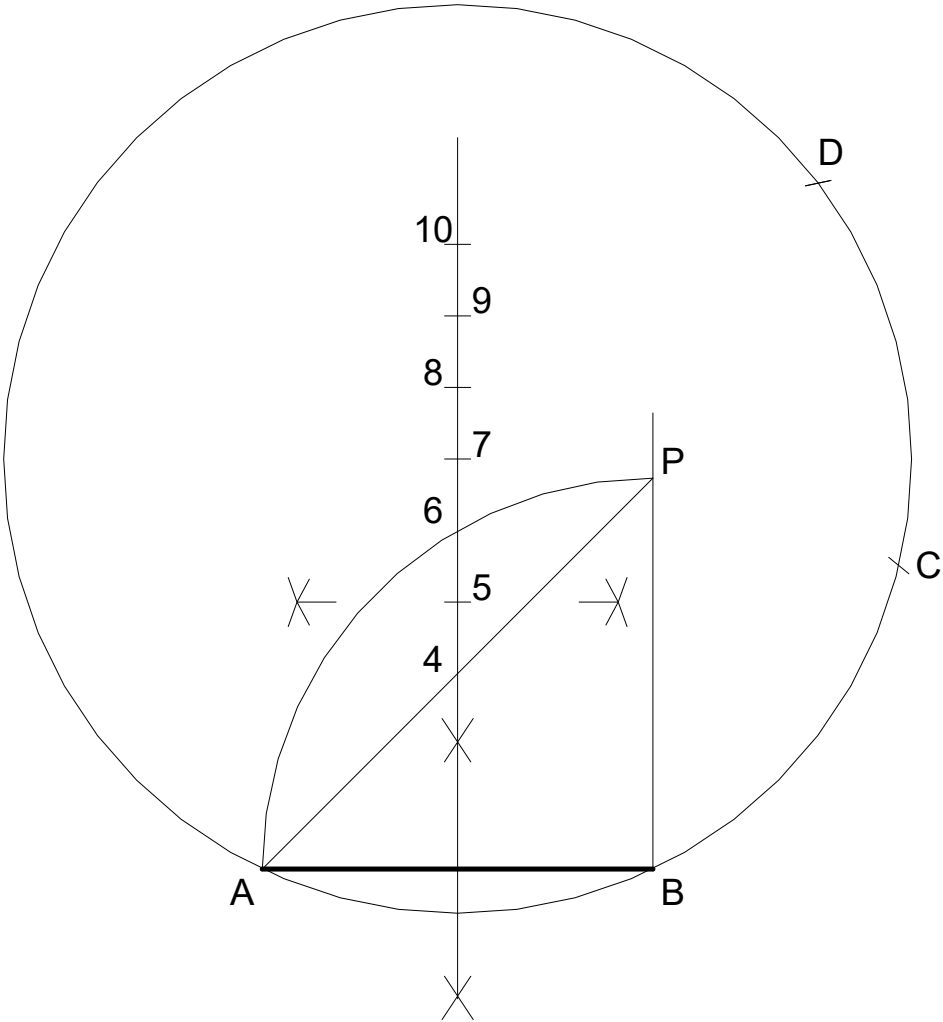
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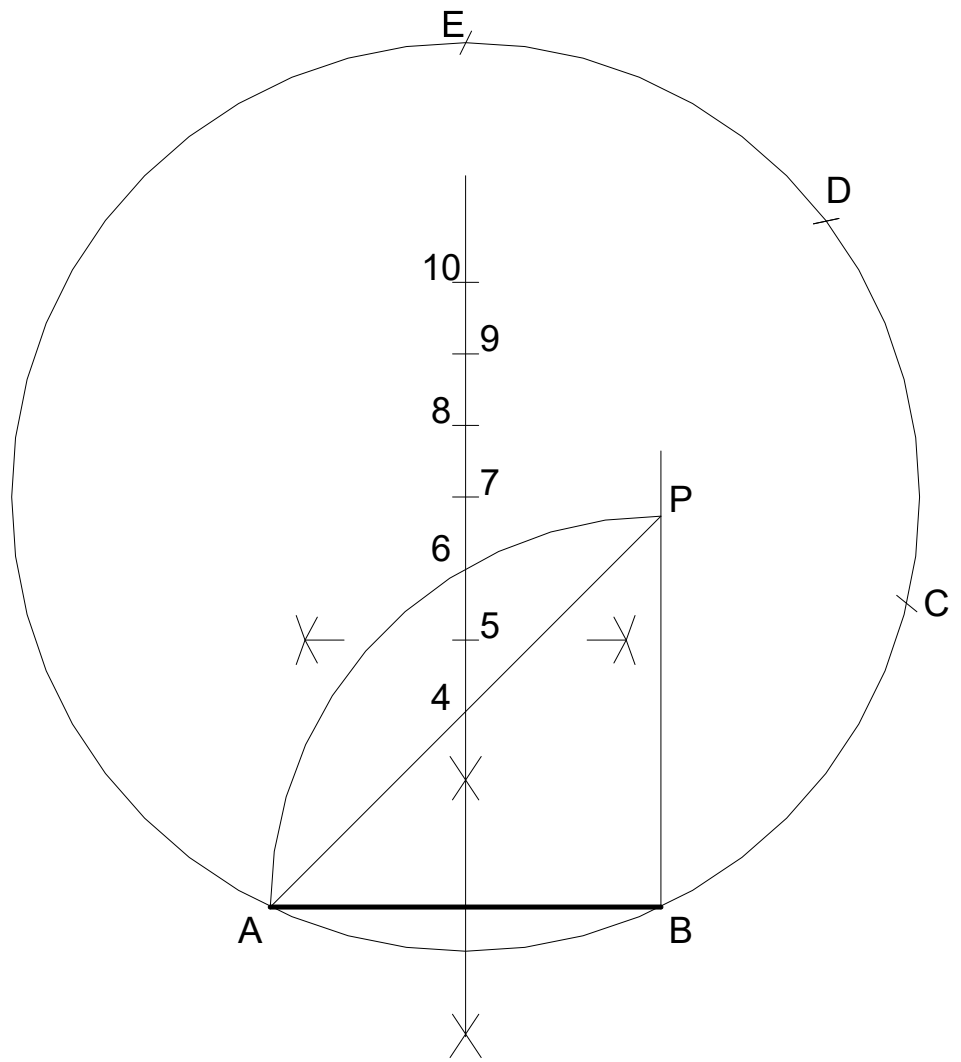
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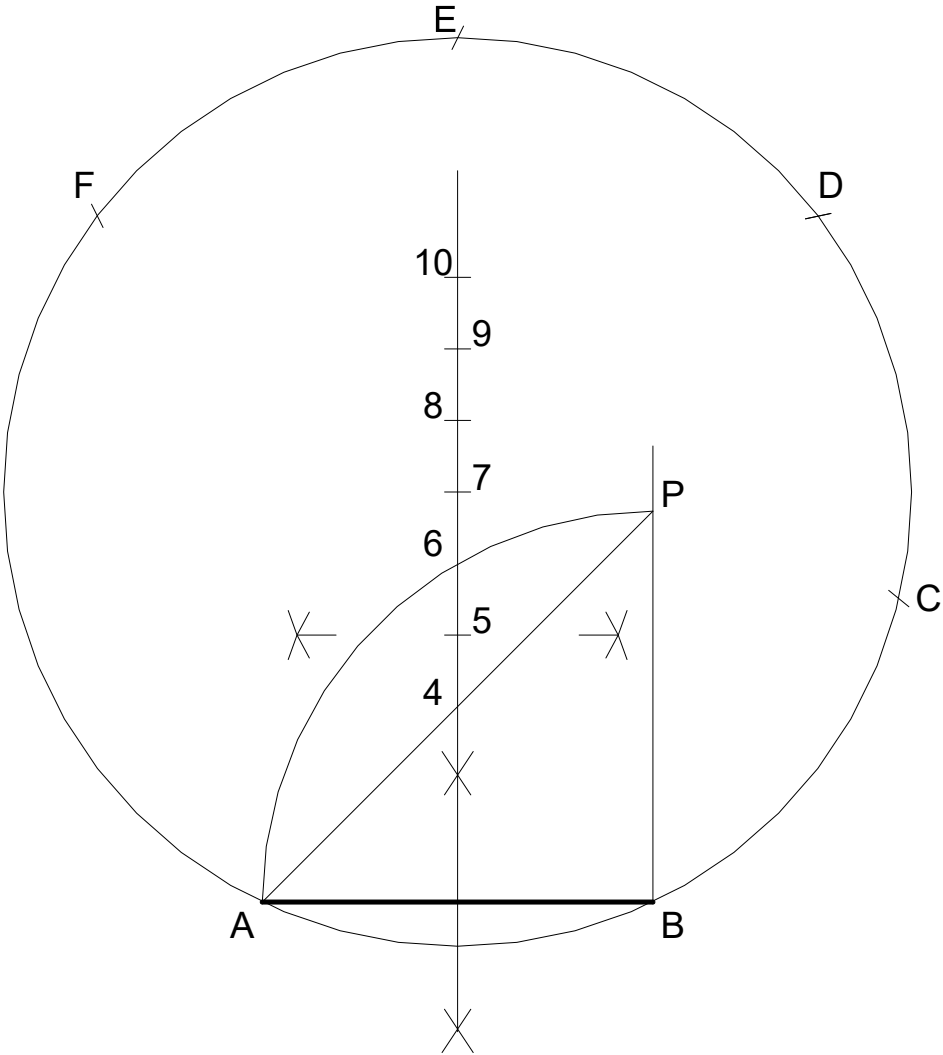
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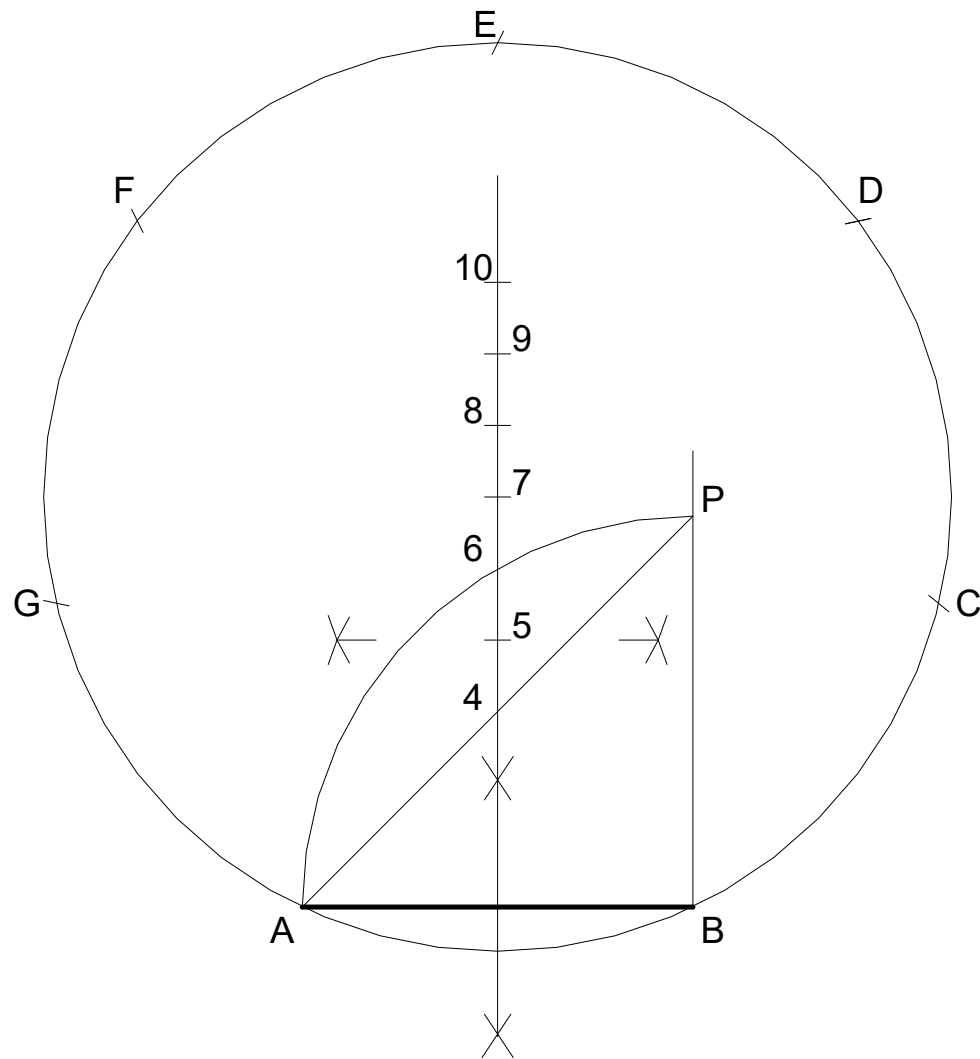
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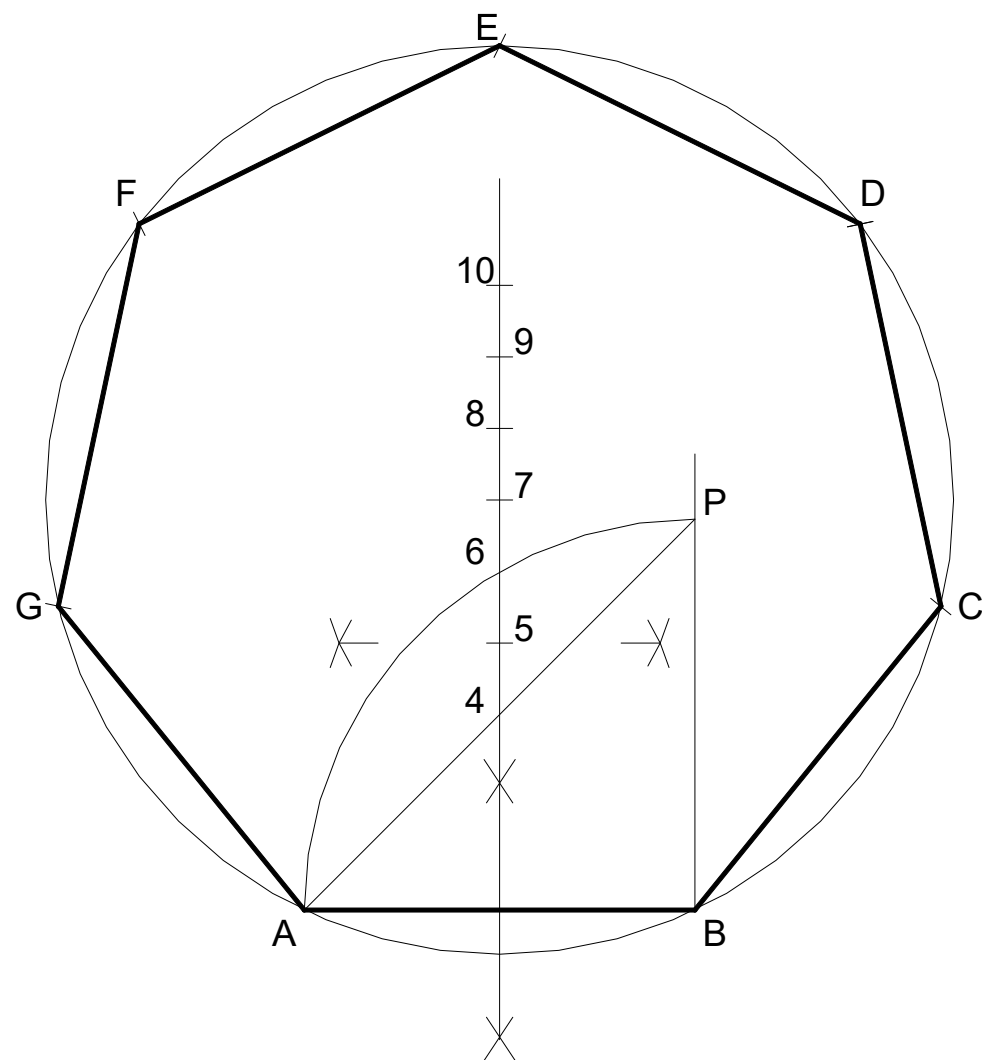
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Practice problems:

Solved Problems # 4.3, 4.4, 4.7,4.9 (page # 53-58 N.D Bhatt 52th Edition)

Solved Problems # 5.22,5.27,5.28,
5.51,5.58 (page # 79 N.D Bhatt 52th Edition)

Construct regular polygons of sides 4, 6, 9,12.

Length of one side is 5 cm

Assignment # 1

• **Exercise IV**

Problem # 10, 11, 13. (page 67 N.D Butt 52th Edition)

• **Exercise V**

Problem # 1,2,12,15,22, 25,31. (page 98 N.D Butt 50th Edition)