

# EGD Grade 10

## Geometric Constructions

### Construct a $90^\circ$ angle from a point outside a line

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# Geometric Constructions

Question

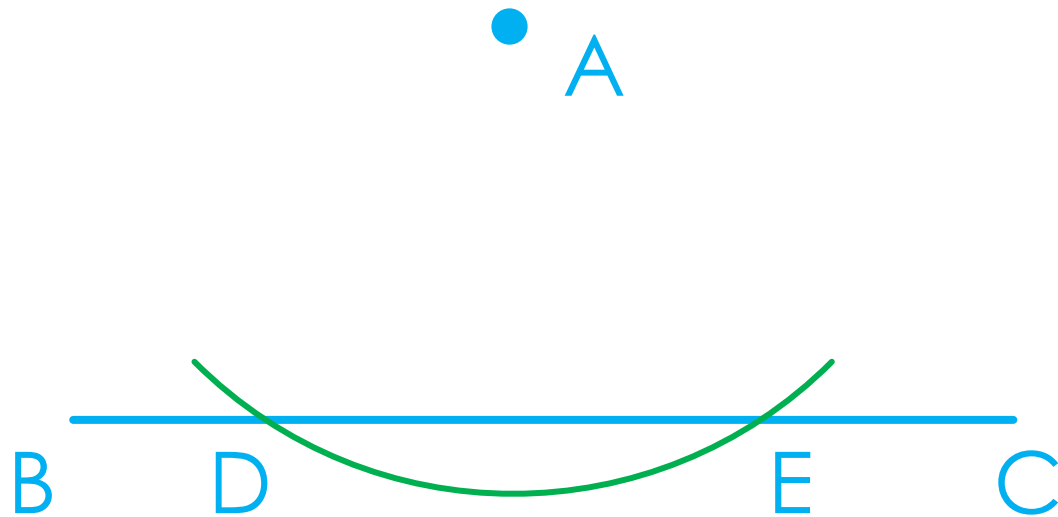
- Draw a perpendicular line from point A towards line segment BC by means of construction



# Geometric Constructions

Step 1

- **Question:** Perpendicular line from point A
- Draw an arc from A that will intersect line segment BC at D and E



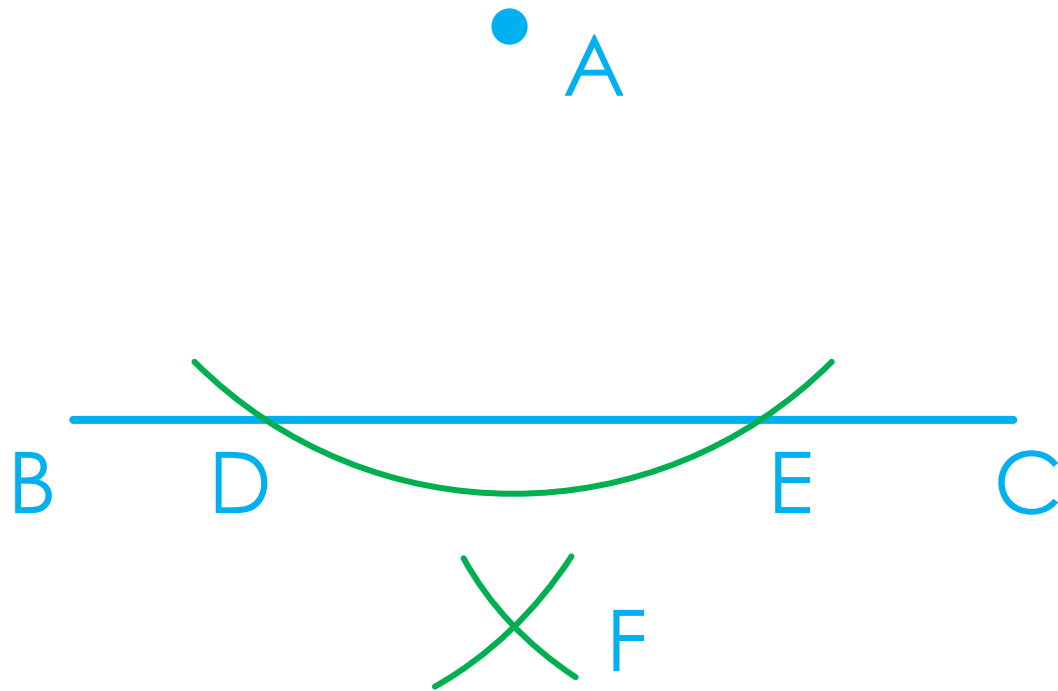
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# Geometric Constructions

Step 2

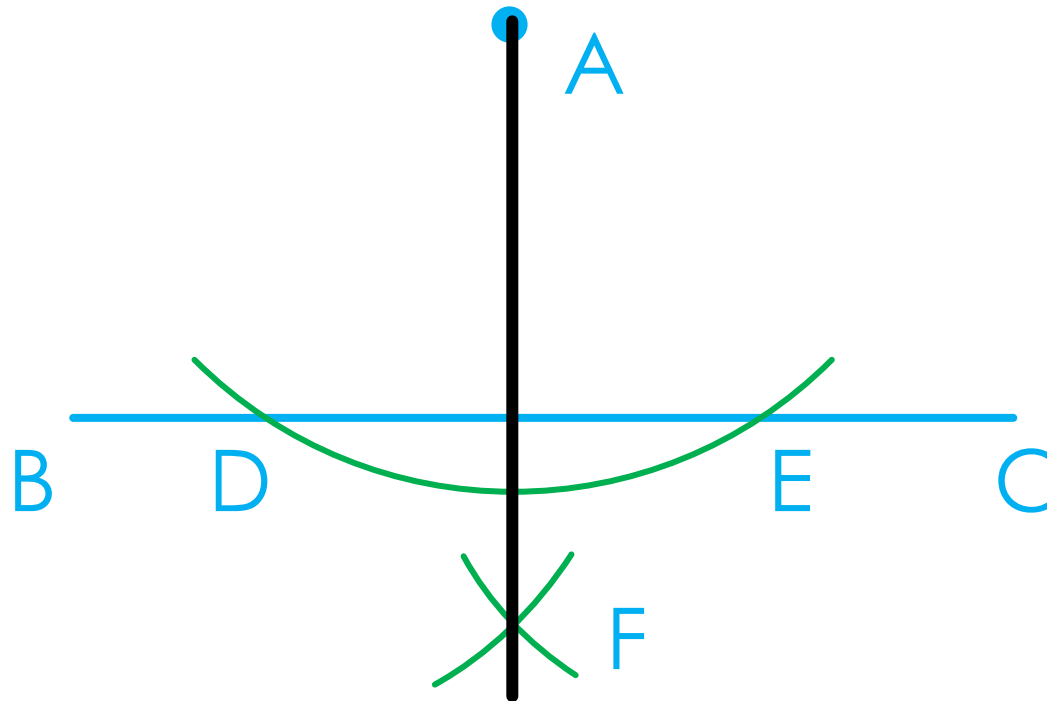
- **Question:** Perpendicular line from point A
- Strike two similar sized arcs from D and E respectively to intersect at point F



# Geometric Constructions

Step 3

- **Question:** Perpendicular line from point A
- Join point A with the intersection point at F to complete the perpendicular line



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# Geometric Constructions

Task 1.5.1

- On the prepared A3 drawing sheet (Task 1.3.3), draw line segment AB (75mm in length) with a point C  $\pm$  30mm above and more or less  $\frac{1}{4}$  from A of line segment AB.
- **Question:** Draw a perpendicular ( $90^\circ$ ) line from point C towards line segment AB by means of construction.
- Show all construction lines.
- Name this task 1.5.1

