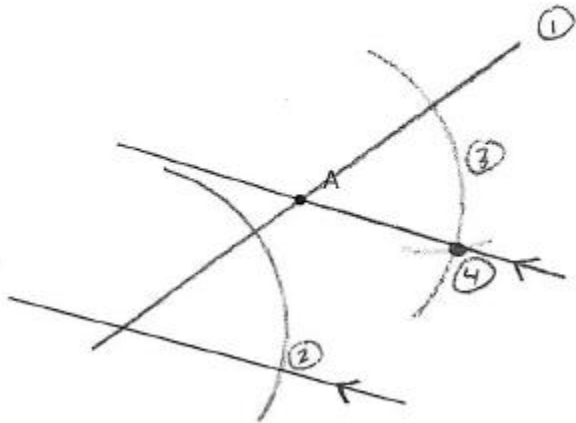


NOTE: For every construction that you do, you **MUST** leave the work, arcs, marks, etc. that you make along the way to earn full credit. Do **NOT** erase anything at the end of the problem to make your construction “look better.”

Goal: Construct a segment parallel to the given segment through A.

Helpful steps

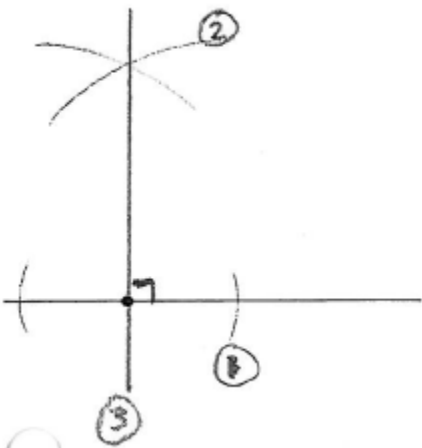
- 1) Form angle by connecting point to given segment.
- 2) Copy a congruent angle to new vertex location (A) using steps for copying an angle.
- 3) Connect intersection to new vertex to form parallel line.



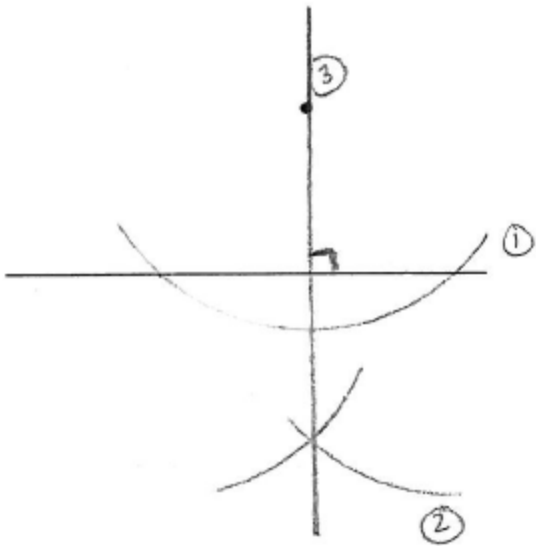
Goal: Construct a perpendicular to a line through a point on the line.

Helpful steps

- 1) Place compass at given point and mark arcs on both sides of point.
- 2) Move compass to the intersections and mark arcs above or below segment.
- 3) Connect intersection to original point to form perpendicular segment.



Goal: Construct a perpendicular to a line through a point not on the line.



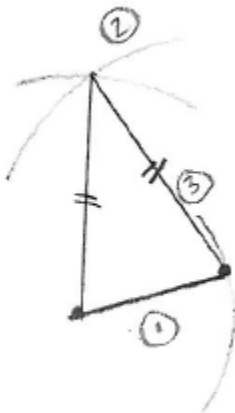
Helpful steps

1) Same as steps for perpendicular on other side.

Goal: Construct an isosceles triangle using the given segments.

Base: _____

Legs: _____



Helpful steps

- 1) Copy base to triangle's location using steps for copying a segment.
- 2) Measure leg with compass.
- 3) Mark arcs from endpoints of base.
- 4) Connect intersection to endpoints of base to form isosceles triangle.