

H. Geometry – Chapter 3 – Definition Sheet

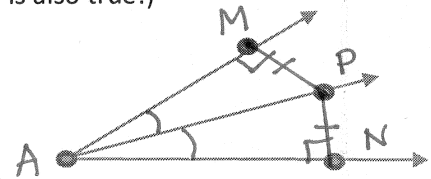
Section 3.4

Angle Bisector Conjecture

If a point is on the bisector of an angle, then the point is equidistant from the sides of the angle. (Note: the converse is also true!)

If \vec{AP} bisects $\angle MAN$,
then $PM = PN$

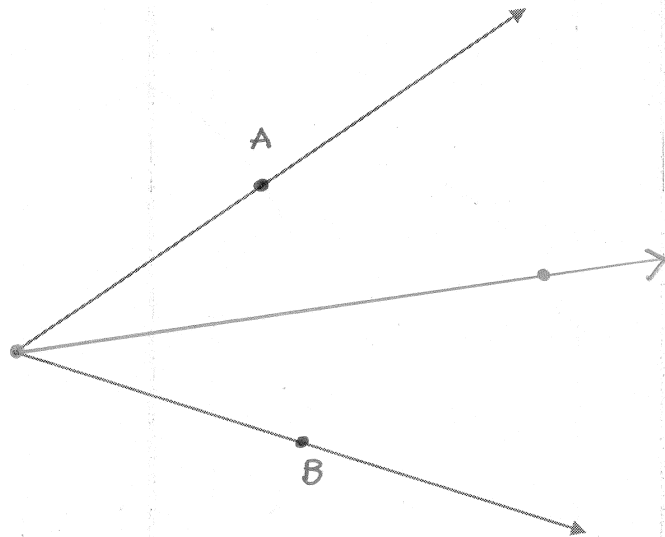
(The converse is also true!)



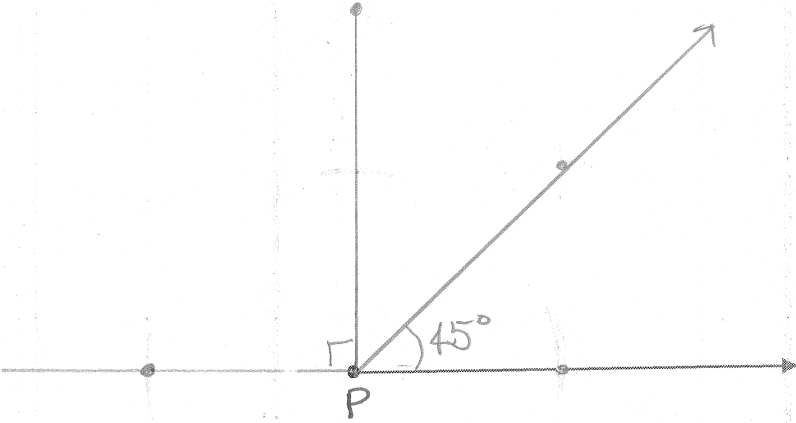
Construct an Angle Bisector

Process:

- (1) create arc from vertex
- (2) create an equidistant pt. from each arc point
- (3) Intersection point is on the bisector line.



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Equilateral Triangle Angle Conjecture	The measure of each angle of an equilateral triangle is <u>60°</u> .
Investigation	<p>(a) Construct a 45° angle at P</p>  <p>(b) Construct a 60° angle at Q</p> 