


H. Geometry – Chapter 3 – Definition Sheet

Section 3.3

<p>Shortest Distance Conjecture</p>	<p>The shortest distance from a point to a line is measured along the <u>perpendicular</u> from the point to the line.</p>
<p>Definition of <u>Distance from a point to a line</u></p>	<p>The length of the <u>perpendicular</u> segment from the point to the line.</p>
<p>Altitude of a Triangle vs. Height of a Triangle</p>	<p>- A segment from a vertex of a \triangle that is \perp to the line containing the opposite side. - length of the altitude</p>
<p>Constructing a Perpendicular through a Point (P) Not on the Line</p> <p>Process:</p> <p>(1) From point P, create an arc that hits line l twice</p> <p>(2) measure 2 intersection points and create perp. bisector from there!</p>	

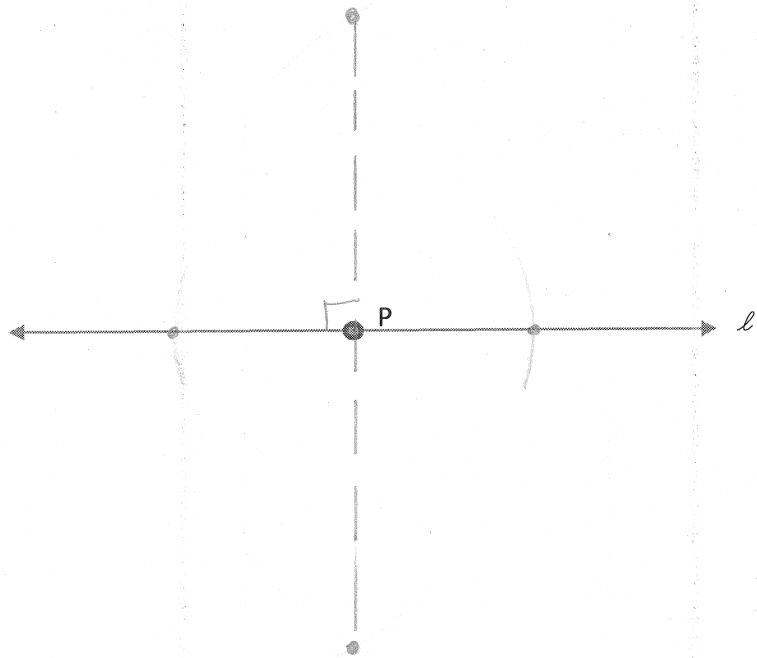
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Constructing a
Perpendicular through a
Point (P) ON A LINE.

Process:

(1) Find 2 points
equidistant
from P

(2) create perp.
bisector.



Constructing an Altitude of
a Triangle.

Process:

(1) From vertex,
create arc through
opposite side
hitting twice
(if not, extend
side)

(2) Create perp.
bisector

