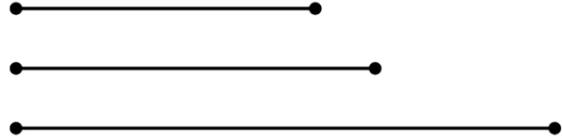
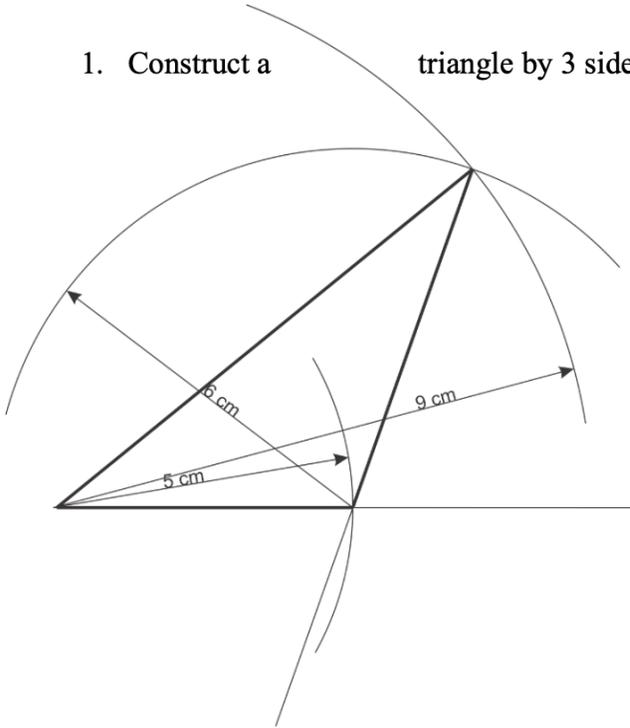


Math 5. Homework. Construction with compass.

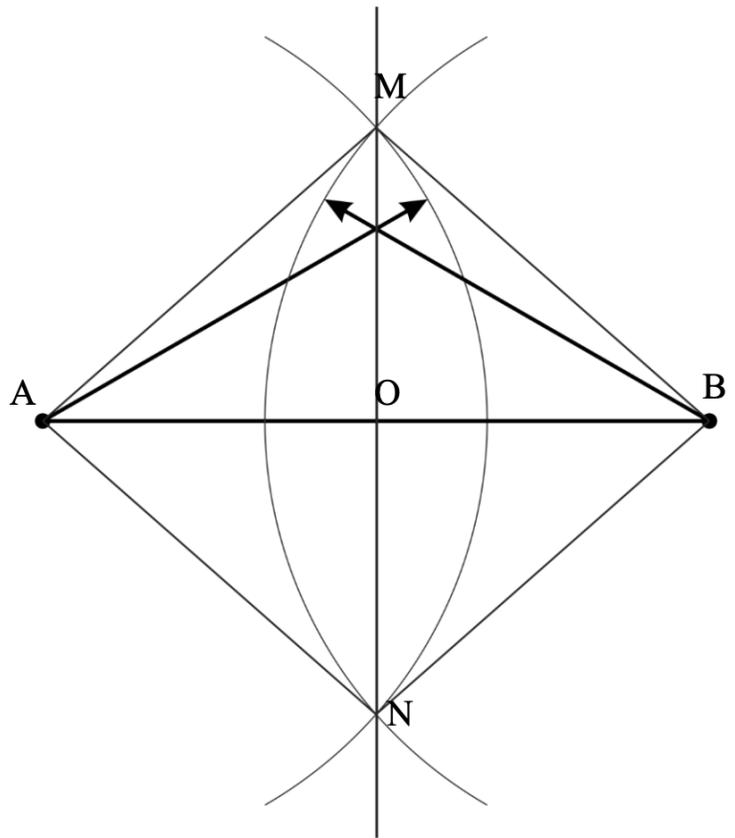
What we learned in class:

1. Construct a triangle by 3 sides.



2. Divide a segment into two equal parts.

$[AM] = [MB] = [AN] = [NB]$
 Triangles AMB and ANB are isosceles and congruent
 Triangles AMN and MNB are isosceles and congruent. Angle $\angle AMN = \angle NMB$, so MN is a bisector of the angle $\angle AMB$. In isosceles triangle this bisector is a median and altitude. So, point O is a midpoint of a segment $[AB]$.



Homework:

1. Construct a perpendicular to a line, passing through the point on the line.



2. Construct a perpendicular to a line, passing through the point outside the line.



3. Construct an isosceles triangle by a leg and the altitude, drawn to this leg.

