NOTE ON what tools you are allowed to use for HW and Midterm. April 7 2016.
You may use the following theorems.
SAS, SSS, and ASA.
That the sum of the angles of any triangle is are 180 degrees.
The two Thales theorems, about triangles whose “base” is a diameter or a chord of a circle.
The constructions and properties of a perpendicular bisector of a segment, and the angle bisector of an angle, as per recently handed in HWs.
The theorem that the tangent to a circle at a point is the line perpendicular to the radius at that point.
Basic similarity and area properties: if you scale a figure by a its area is multiplied by $a^2$. Similarity: AAA for two triangles with sides $a, b, c$ and $a', b', c'$ is equivalent to $a : b : c = a' : b' : c'$.
When using any of these theorems, do state the theorem (as ‘SAS’ or ‘Thales theorem on triangles one of whose sides is is the diameter of a circle”, ‘the HW on perpendicular bisectors’, etc.) . Do not prove these theorems when using them.
The general rule is you are allowed to use anything we have proved in class or done as HW in addition to these things. The exceptions to the rule include cases where I ask you to prove something we already have done.