

Homework – Euclidean Geometry

Deadline: Feb. 26, 2013

1. Prove that the sum of interior angles of a triangle is two right angles.
2. Prove that any inscribed triangle of a circle with one side as a diameter of the circle is a right triangle.
3. If two angles of triangle are equal, then it is an isosceles triangle.
4. If two angles have their sides respectively parallel, then they are either equal or supplementary.
5. If two angles have their sides respectively perpendicular, then they are either equal or supplementary.
6. Show that EPP-P implies EPP-T.
7. Show that EPP-T implies EPP-P.
8. Problem 4 on page 33 of textbook *Euclidean and Non-Euclidean Geometry*.