Math 531 Exam 1.

(Version 2)

(prectice)

O is always the center of a circle. Hand in six solutions.

Find AB.

2. A regular hexagon is inscribed in a unit circle. Find its perimeter.

3. A

Assume DABC is isosceles with base BC, and that C7 and BY are altitudes.

Prove BY = ZC.

4. In quadlirateral ABCD suppose that AB = CD and AB | CD. Prove ABCD is a parallelogram.

5. Let P be a point exterior to a circle centered at point 0, and draw the two tangents to the circle from P. Let S and T be the two points of tangency. Show that OP bisects ZSPT and PS=PT.

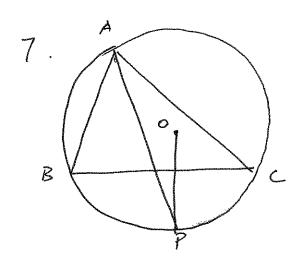
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2, p.2.

Prove (as proved in class)

that CAOB = 2 < ACB.

(Here o is the center)



O is the center, and AP is the angle bisector of CBAC. Prove that OP I BC.