1 Problems

Problem X Show that every triangle is isosceles. Hints: 3 4 1

Problem Y Show that every triangle is equilateral. Hints: 2

2 Hints

2

- 1. Finally, add the lengths of the segments.
- 2. This last problem follows from the previous problem.
- 3. First, intersect the perpendicular bisector with the angle bisector to get a point P; WLOG it lies inside the triangle.
- 4. Next, drop the altitudes from P to the two sides.