5-1 Practice

Bisectors of Triangles

Find each measure.

1. \( TP \)

2. \( VU \)

3. \( KN \)

4. \( \angle NJZ \)

5. \( QA \)

6. \( \angle MFZ \)

7. \( \overline{BN} \) \( \overline{NT} \)

8. \( \overline{BL} \) \( \overline{LN} \)

Point \( L \) is the circumcenter of \( \triangle ABC \). List any segment(s) congruent to each segment.

9. \( \angle YLA \)

10. \( \angle YGA \)

11. SCULPTURE A triangular entranceway has walls with corner angles of 50°, 70°, and 60°. The designer wants to place a tall bronze sculpture on a round pedestal in a central location equidistant from the three walls. How can the designer find where to place the sculpture? **Find the incenter, where the three angle bisectors meet.**