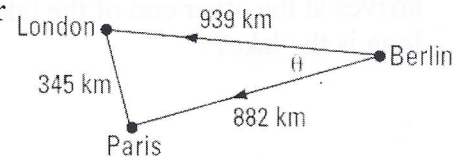
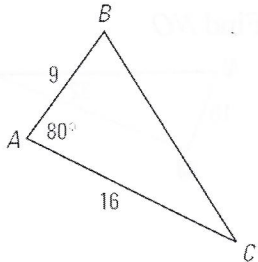


Algebra 2CP: Law of Sines/Law of Cosines Worksheet Name _____

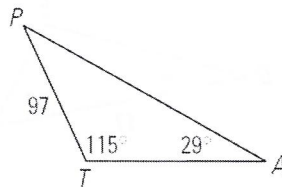
1. Two airplanes leave Berlin, one heading straight for London and the other straight for Paris. Use the Law of Cosines to estimate the measure of the angle, θ , they will form.



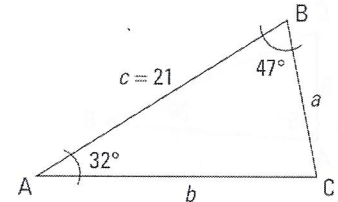
2. Find BC



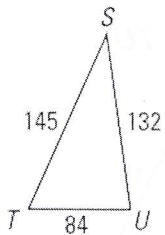
3. Find PA



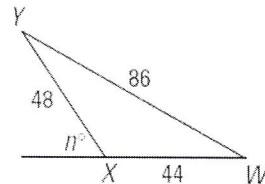
4. Find the length of side b



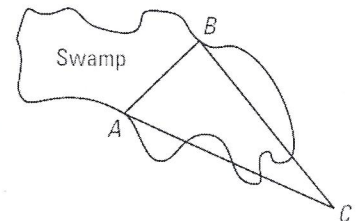
5. Find $m\angle S$, $m\angle T$, and $m\angle U$



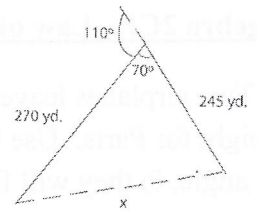
6. Find n



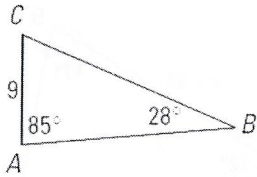
7. Some students in Geometry are assigned the task of measuring the distance between two trees separated by a swamp. The students determine that the angle formed by tree A , a dry point C , and tree B is 27° . They also know that $m\angle ABC$ is 85° . If AC is 150 ft, how far apart are the trees?



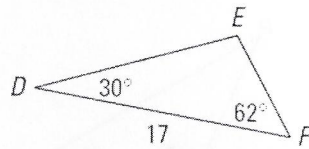
8. A surveyor starts at one end of the lake and walks 245 yards. He then turns 110° and walks 270 yards until he arrives at the other end of the lake. Approximately how long is the lake?



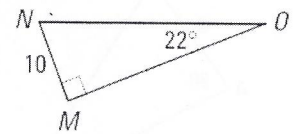
9. Find BC



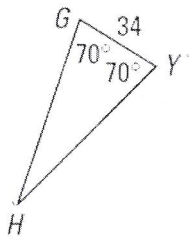
10. Find DE



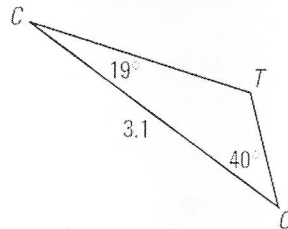
11. Find NO



12. Find GH



13. Find the length of the shortest side.



14. Find TU

