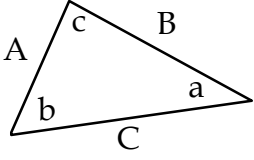
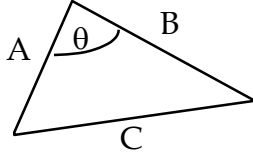


Write in each missing dimension and angle. If a % grade is indicated write it in. ATTACH YOUR WORK!



Law of Sines

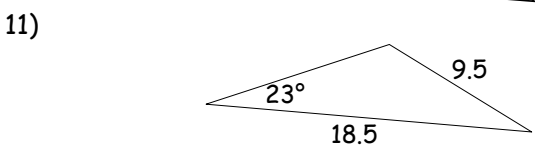
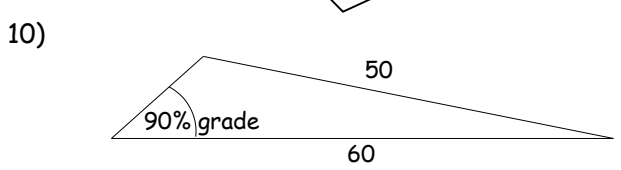
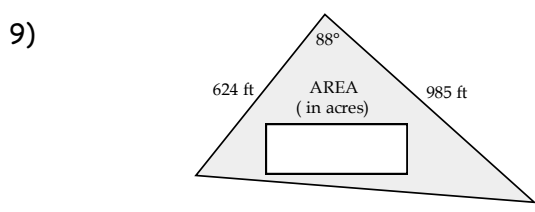
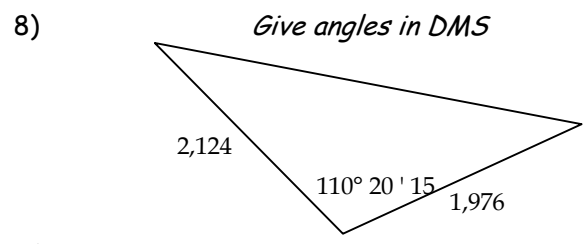
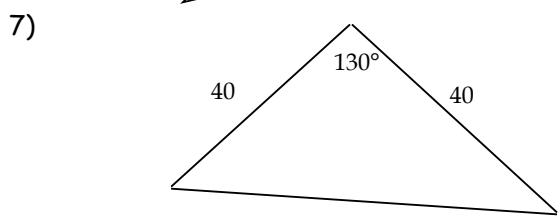
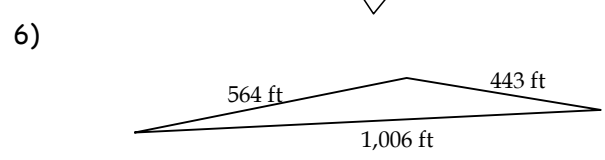
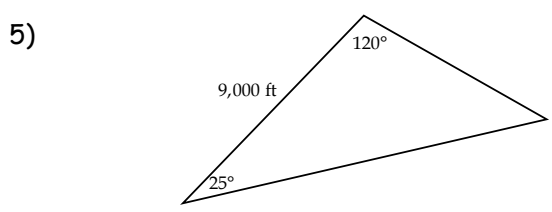
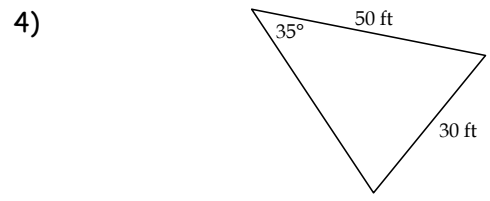
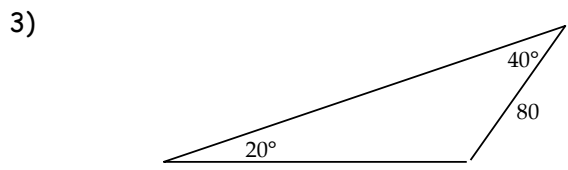
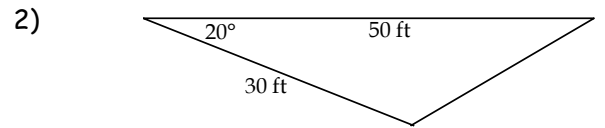
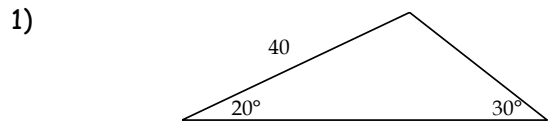
$$\frac{\sin a}{A} = \frac{\sin b}{B} = \frac{\sin c}{C}$$



Law of Cosines

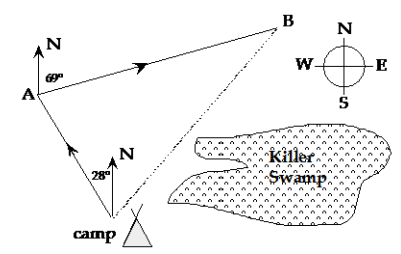
$$A^2 + B^2 - 2AB\cos \theta = C^2$$

$$\cos \theta = \frac{A^2 + B^2 - C^2}{2AB}$$



12) Use the Law of Cosines and the Quadratic formula to solve for B as a function of A, C, theta.

13) Bobby leaves camp chasing a butterfly to point A heading N 28° W. He runs for 548 ft before the butterfly changes direction. Now he runs 1,120 ft at N 69° E to point B. At this point the butterfly disappears and Bobby realizes he is somewhat lost. But he is a boy scout and is well prepared with his trusty compass. What direction must he head back to camp and how far is it?



Random Triangles

Name _____

Write in each dimension and each angle. Where a % grade is indicated write it in. ATTACH YOUR WORK!

