SI Week 11

1. Solve the following triangles
	1. Suppose A=115°, C=35°, and c=70



* 1. Suppose b=67, c=73, and B=30°



1. Solve the following triangles
	1. Suppose B=117°, a=16, and c=61



* 1. Suppose that a=59, b=70, c=38
	2. Suppose that B=34°, a=10, c=40
1. Solve the following word problems
	1. Chad wants to know the length of a tunnel built through a mountain. To do so, he makes the measurements shown in the figure below. Use these measurments to find the length of the tunnel.
	2. If a plane a leaves Denver and flies 131 km to Fort Collins (not accurate), then turns at an angle of 44° and flies 108 km to Cheyenne. What angle with respect due north could the pilot have used to fly directly from Denver to Cheyenne?
	3. Justin is flying 2 kites. He has 101 feet of string out to one kite and 110 feet out to the other. The angle formed by the 2 strings is 34°. How far apart are the kites?