1. Juan and Sophia are standing at the seashore 10 miles apart. The coastline is a straight line between them. Both can see the same ship in the water. The angle between the coastline and the line between the ship and Juan is 35 degrees. The angle between the coastline and the line between the ship and Sophia is 45 degrees. How far is the ship from Juan?
2. Jim, Rick, and Harry are camping in their tents. If the distance between Jim and Rick is 153 feet, the distance between Jim and Harry is 201 feet, and the distance between Rick and Harry is 175 feet, what is the measure of the angle Rick-Jim-Harry?
1.5 Mathematical modeling with Triangles
3. Find the height of the mountain.

