Law of Sines and Cosines Word Problems

HW: PAGE 503 #37, 48, 57 PAGE 511 #33, 35, 39

- 3. A pilot has just started on the glide path for a landing at a point where the length of the runway is 12,500 feet. The angles of depression from the plane to the ends of the runway are 22.5° and 27.1°. Round answers to each of the following to the nearest tenth of a mile.
 - a) Draw a picture that represents the problem
 - b) Determine the air distance the plane must travel to land on the runway
 - c) Determine the ground distance the plane travels before touching down.
 - d) Determine the altitude of the plane.





