Algebra 2
LoS, LoC Applications

Name: ___CLASS COPY_____
Period: _____

Round to the nearest tenth!

1. Three streets border a triangular park. Castle Drive is 80 meters long, Huntington Lane is 75 meters long, and Birch Street is 140 meters long. What is the angle between Birch Street and Castle Drive?

2. A baseball diamond has 90 feet between the bases. The pitcher's mound is 60.5 feet from home plate. How far is the pitcher's mound from first base?

3. Steve and Erika start at point A. They each run in a straight line at an angle of 120° to each other. Steve runs at 6 mph while Erika runs at 8 mph. How far apart are they after 45 minutes?

4. The towns of Glen Ridge and Riverside are 15 miles apart. If the angle of elevation to an airplane in the sky between the two towns is 15° and 28° respectively, find the altitude of the airplane.

5. Your surveying crew is given the job of measuring the height of a mountain. From a point on the ground, they measure the angle of elevation to be 21°. They move 450 meters closer and find that the angle of elevation is now 32°. What is the height of the mountain?

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