5)
The angle of elevation from a sailboat to the top of a 121-foot lighthouse on the shore measures 16°. How far is the sailboat from the lighthouse?
6) Ben is flying a kite directly over his buddy Franklin, who is 125 meters away. The kite
string makes a 39° angle with the ground (which is level). How high is the kite?
7) From a cliff 150 feet above a lake, Julio saw a boat sailing directly toward him. The angle of
depression was 5°. A few minutes later, he measured it to be 11°. Find the distance the boat sailed between the two observations.
A road runs due east from the base of Mount Baldy. From two points 235 meters apart on
the road, the angles of elevation to the top of the mountain are 43° and 30°. How high above the road is the mountaintop?