



4. From the top of a lighthouse 210 feet high the **angle of depression** of a boat is  $27^\circ$  find the distance from the boat to the foot of the lighthouse. The lighthouse was built at sea level.
5. Richard is flying a kite. The kite string makes an **angle of elevation** of  $57^\circ$  with the ground. If Richard is standing 100 feet from the point on the ground directly below the kite find the length of the kite string.
6. At a point on the ground 50 feet from the foot of a tree the angle of elevation to the top of the tree is  $53^\circ$ . Find the height of the tree.