

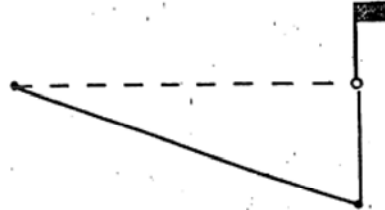
Trig Word Problems



8.17

Make a sketch and solve each.

5. Slammin' Sammy slices his drive on the 180 yard, 6th hole, 16° off the line to the hole. (A slice is to the right.) How far from the hole is the ball? How far did the ball travel?



6. What is the angle of elevation to the sun if 7'2" Shaq casts a shadow of 36 feet?
7. A 28 foot rescue ladder reaches Binky, who is 21 feet up a tree. What angle does the ladder make with the ground?
8. From a fire watch tower, the ranger sights a fire at an angle of depression of 6° . The ranger is 830 meters above the level of the fire. How far away is the fire? **7 from the base of the watch tower?**
9. From a point 110 feet in front of the courthouse, the angle of elevation to the top of the courthouse is 32° and the angle of elevation to the top of the flagpole on top of the courthouse is 47° . How tall is the flag pole?