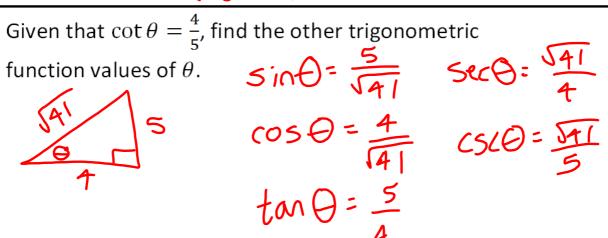
## Turn in Homework #1:

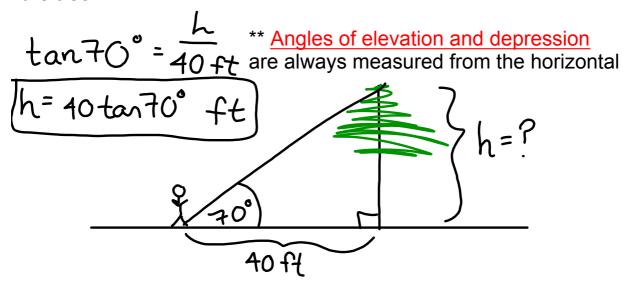
section & problem numbers clearly labeled, name printed on first page, stapled in order

- 5.1 #1, 2, 7-18 all
- 5.1 #31-48 all
- 5.1 #55-74 all
- 4 problems on handout (angular Speed)

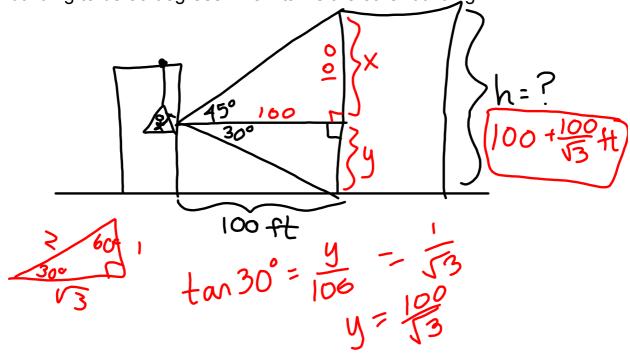


## 5.2 Applications of Right Triangles

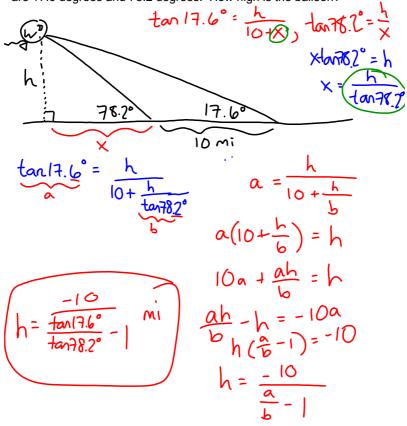
A botanist stands 40 ft. from the base of a tree and estimates the <u>angle of elevation</u> to the tree's peak to be 70 degrees. How tall is the tree?



A window washer on the side of one building, 100 feet from another building, measures the angle of elevation of the top of the other building to be 45 degrees, and the angle of depression to the bottom of the other building to be 30 degrees. How tall is the other building?



A weather balloon is directly west of two observing stations that are 10 miles apart. The angles of elevation of the balloon from the two stations are 17.6 degrees and 78.2 degrees. How high is the balloon?



## Due Wednesday, 8/20:

"Do you know enough Algebra..." take-home quiz

## HW #2 due Friday 8/22:

• 5.2 #1-75odd

Test #1 ~ Wed, 8/27