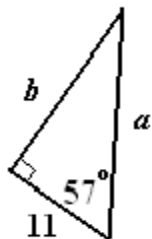


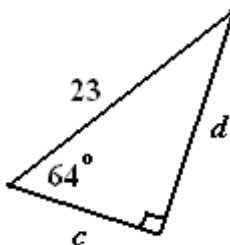
In Class Assignment (04.01.2009)

**Directions:** This will be handed in at the end of class. *(One per person.)* [ **SHOW YOUR WORK** ]  
 Place answers on these sheets and work (if it cannot be fit here) attached separately.  
 Work should be written neatly. This is for a grade, **take it seriously**.

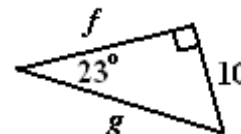
1.)



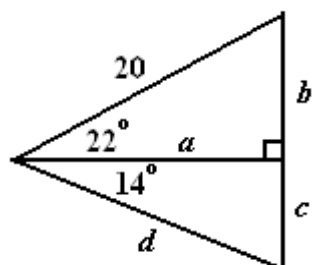
2.)



3.)



4.)

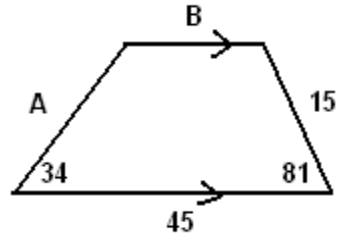
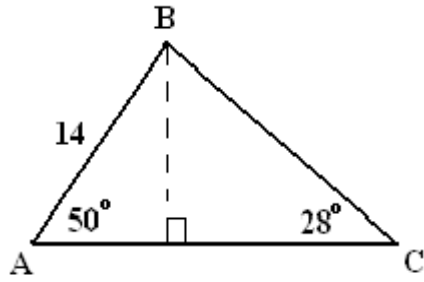


$a = ?$   $b = ?$

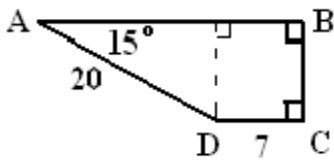
$c = ?$   $d = ?$

5.) Solve for AC and BC.

6.) Find A and B.

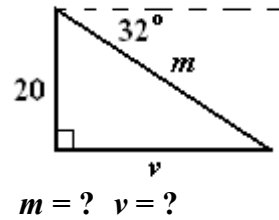


7.) Trapezoid



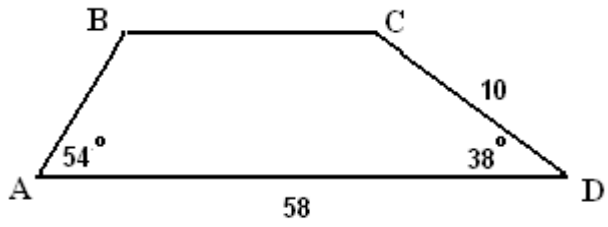
Find AB and BC

8.)

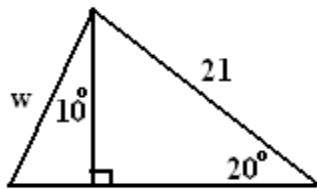


$m = ?$   $v = ?$

9.) Find AB and BC. (Trapezoid)



10.)



$w = ?$

11.) LeBron James is roughly 6 ft 6 in tall. Going to shoot the basketball, his eyesight forms an 8

degree angle with the front of the rim (which is 10 feet off the ground). How far away from the hoop is LeBron? [**Hint:** Assume his eyesight, or the horizontal line of the triangle, is 6.5 feet above ground.]

12.) Looking down at a boat from a 40 meter high lighthouse, Ralph measures an angle of  $15^\circ$  below the horizontal. How far (horizontally) is the boat from the base of the lighthouse? [See the picture for some help with the setup.]

13.) Ralph is looking at a 20 foot tall mural. His horizontal eyesight falls a distance of 6 feet above the bottom of the picture. What angle does Ralph use to view the full mural if he is 65 feet away from it?

14.) Solve for AC and AB. (Hint: Be creative!!)

