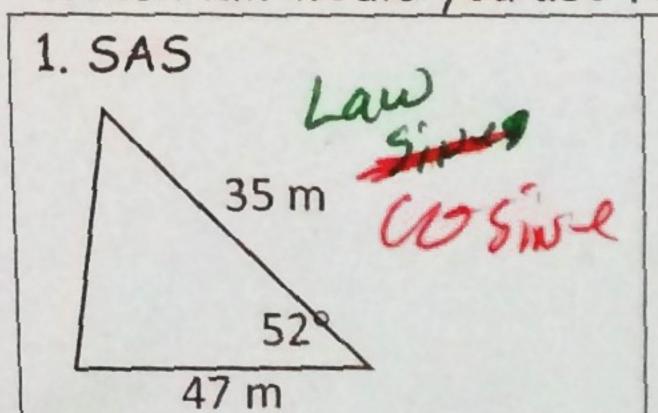
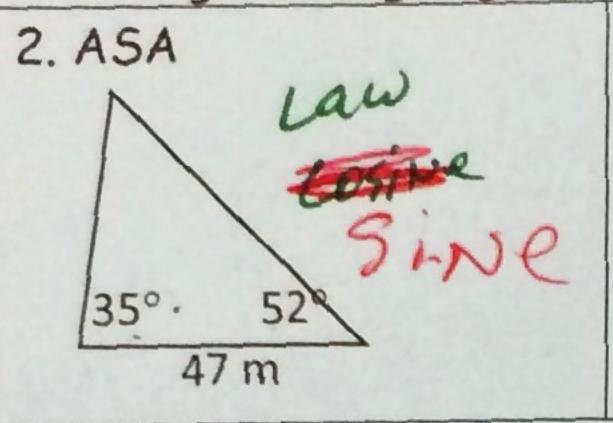
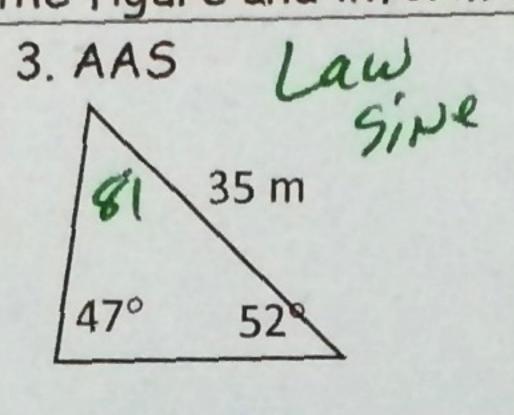
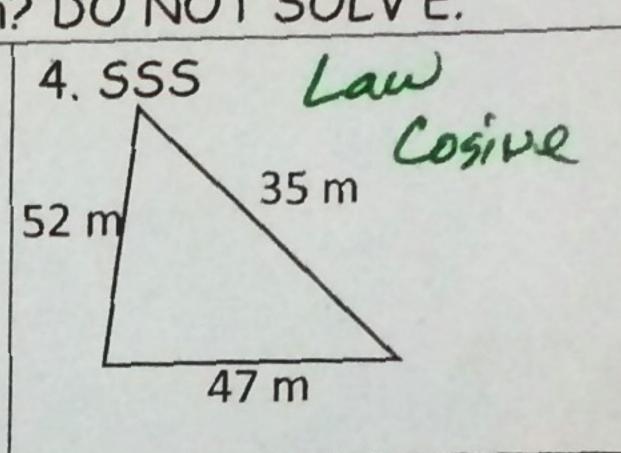
Which law would you use for solving a triangle, given the figure and information? DO NOT SOLVE.

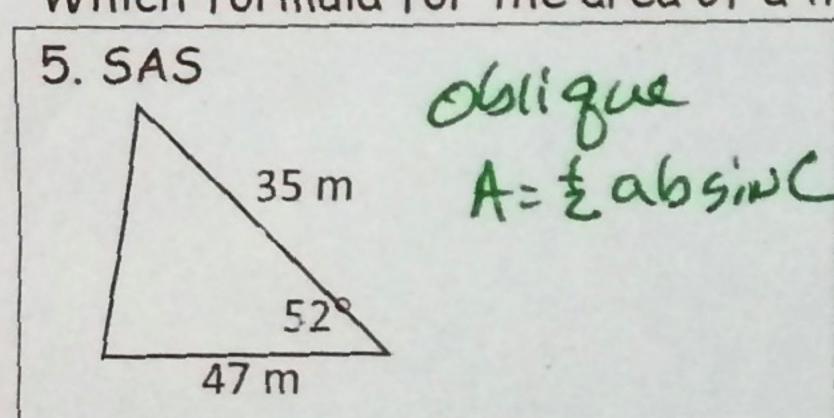


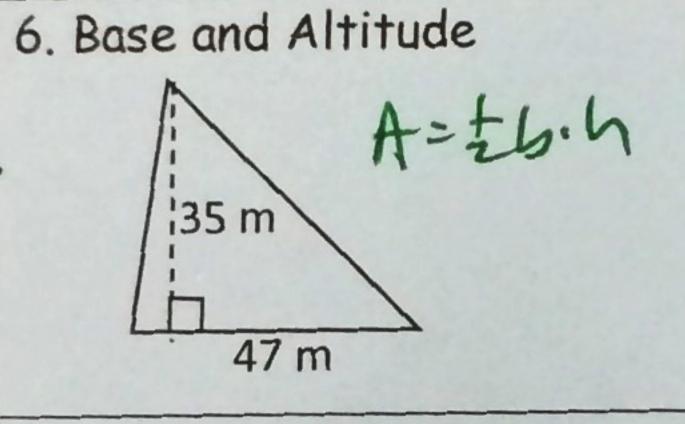


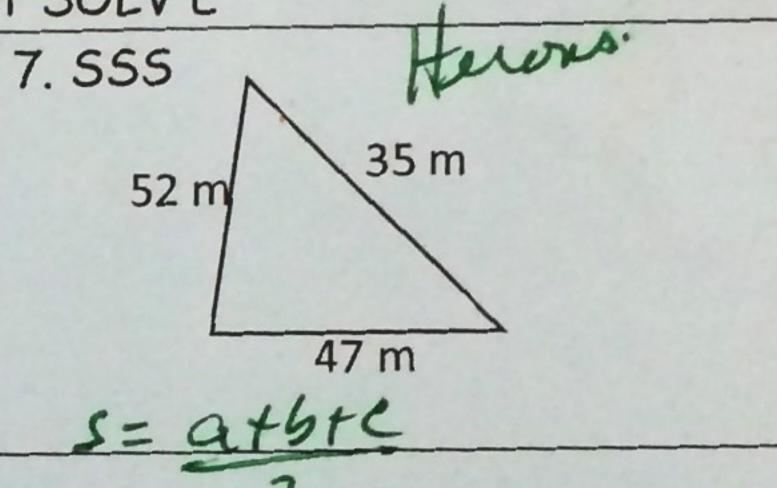




Which formula for the area of a triangle should you use, given: DO NOT SOLV E

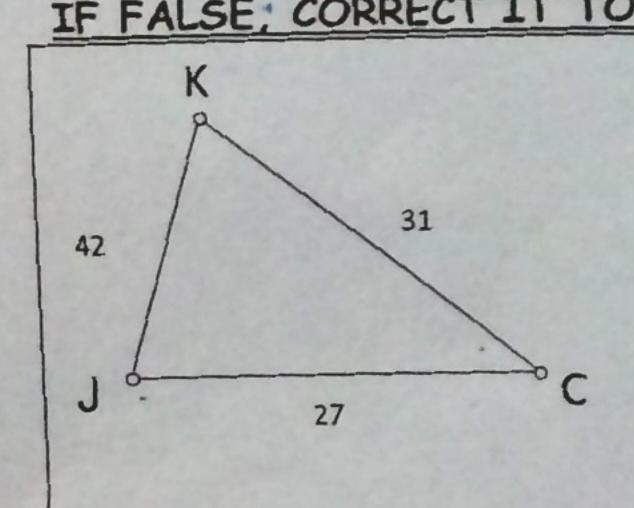


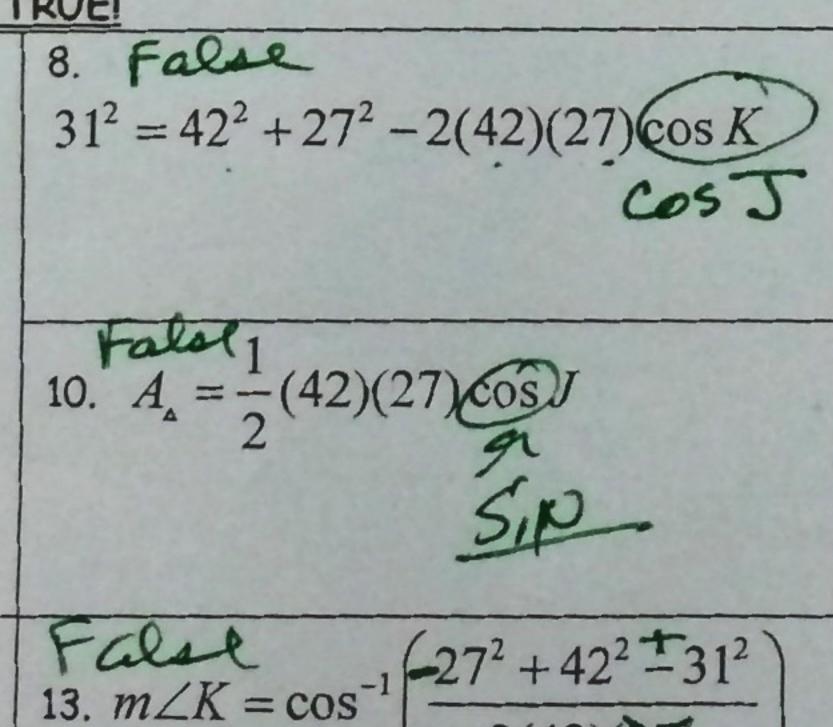


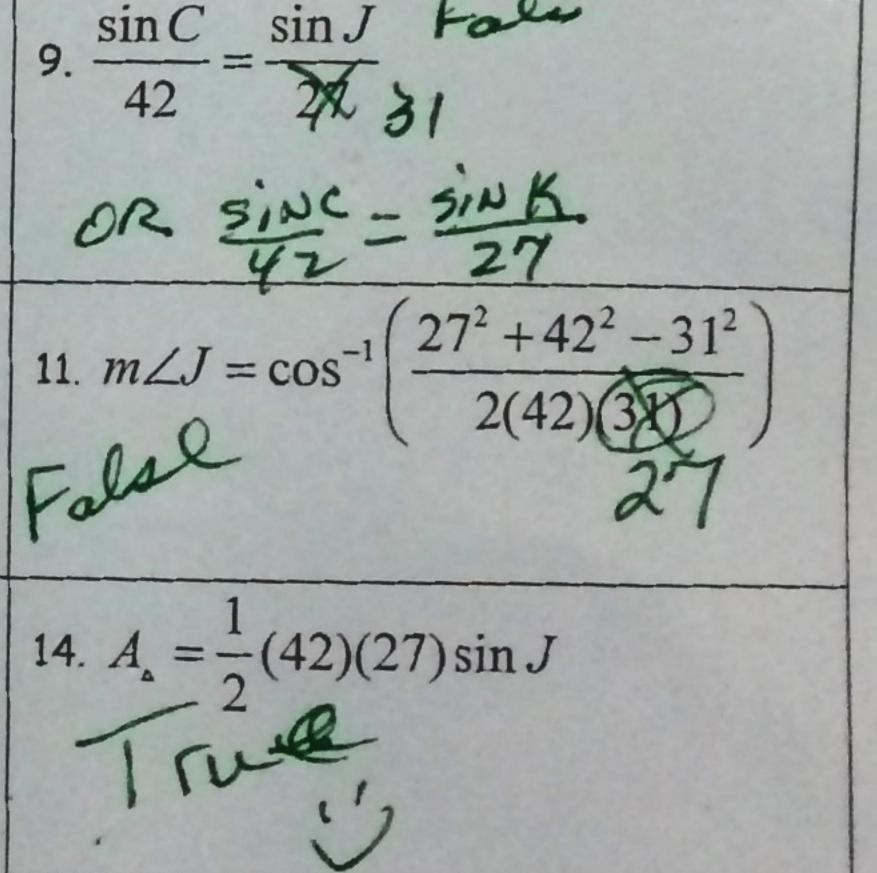


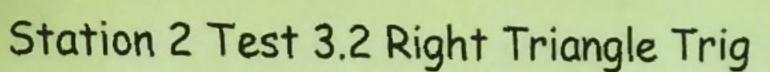
K= V5(5-a)(5-c)

Using the diagram, Determine whether the following statements are <u>True</u> or <u>False</u>? IF FALSE; CORRECT IT TO MAKE IT TRUE!

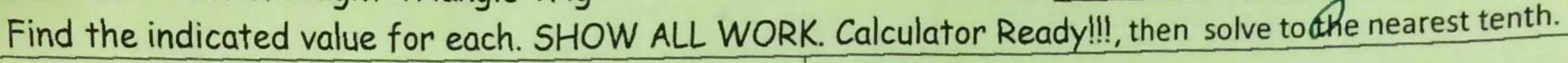




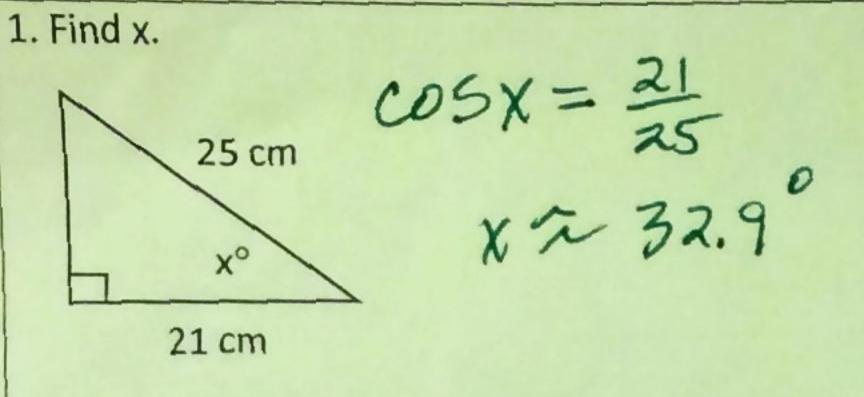


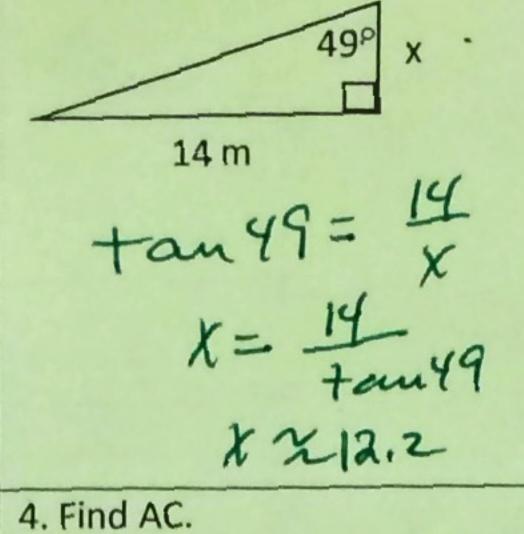


Name_____ Per__

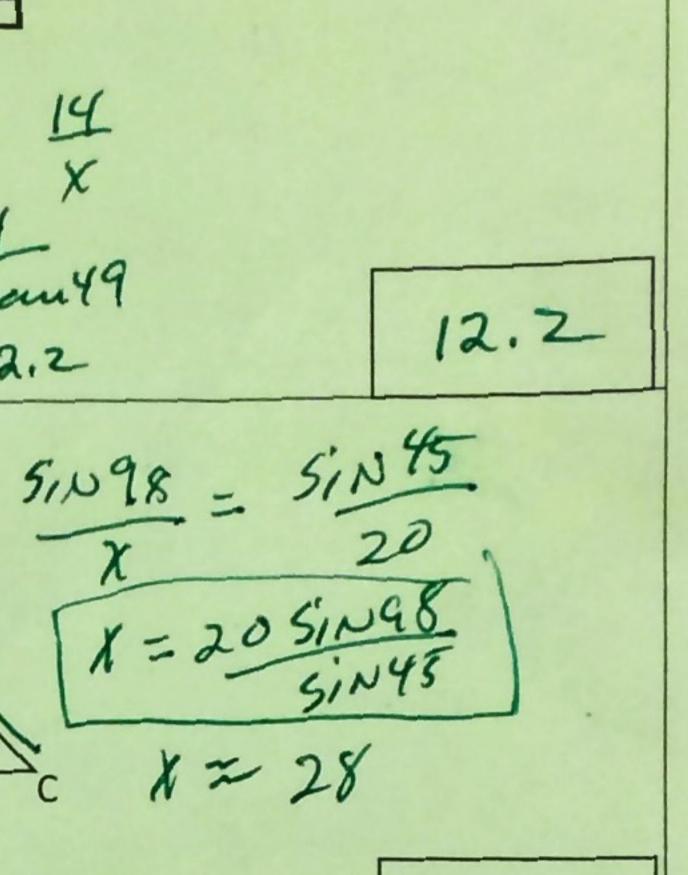


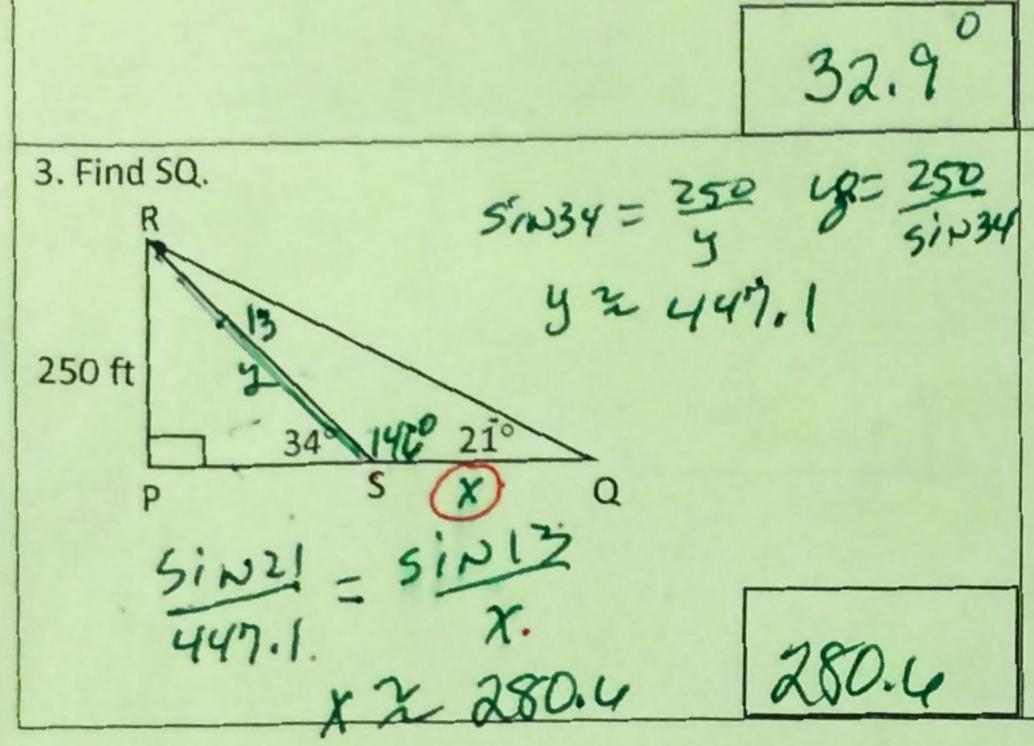
2. Find x.

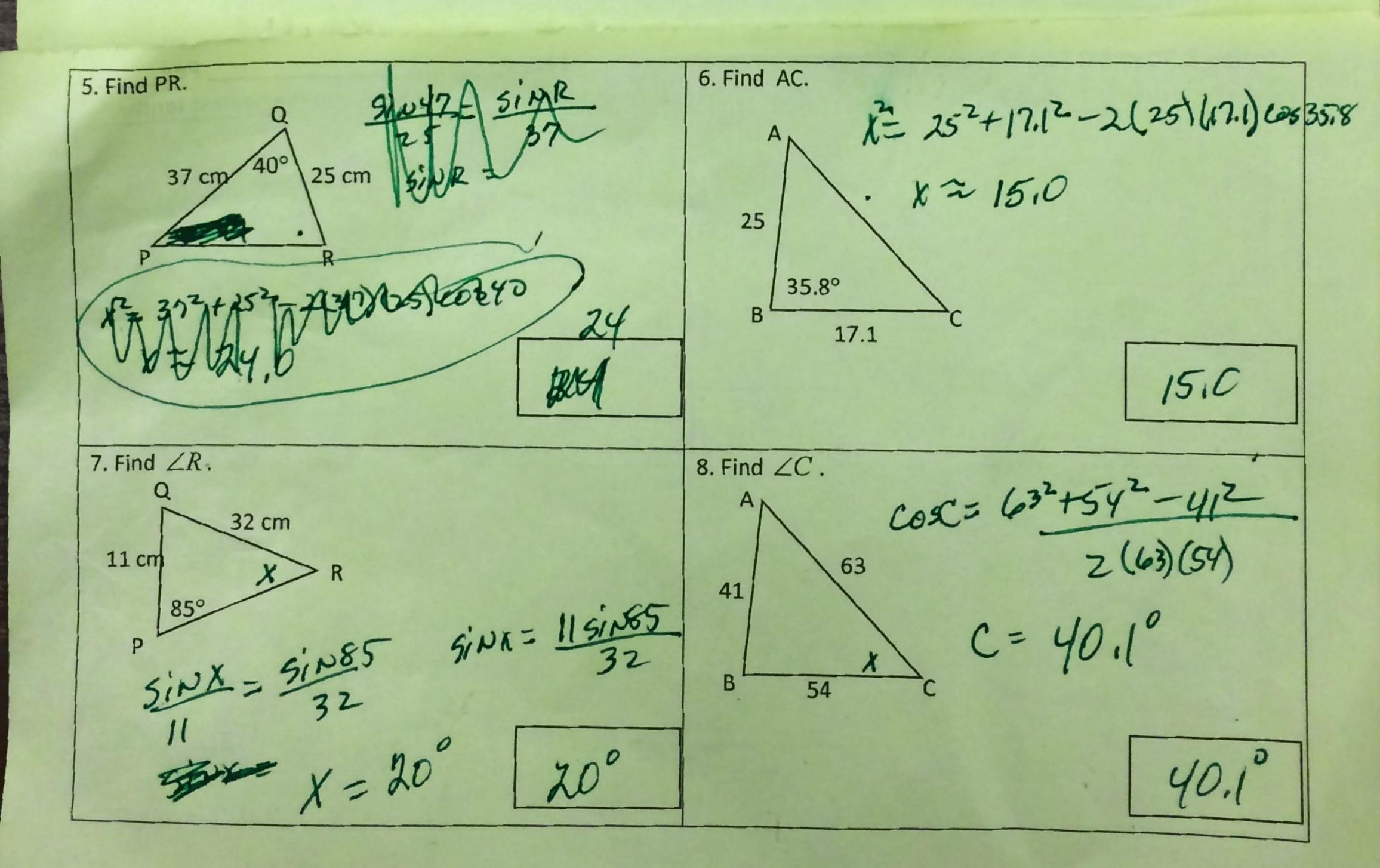




98°

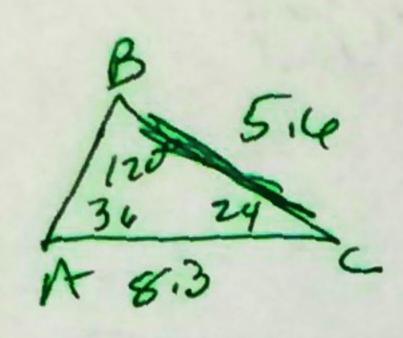






Scavenger Hunt

- 1. Start with any question with an ORANGE boarder.
- 2. Show all work in the 2nd column, write answer in 1st column.
- 3. After you find the answer, walk around until you find the answer at the top of another paper.
- 4. Answer that question and repeat.



side BC

B

$$5iN = 120 = 5iN = 36$$

 8.3
 $X = 8.3 = 5iN = 36$
 $X = 5.6$

5.6

$$A = \frac{1}{2}(5.4)(8.3)5ip24$$
 $A = 9.5$

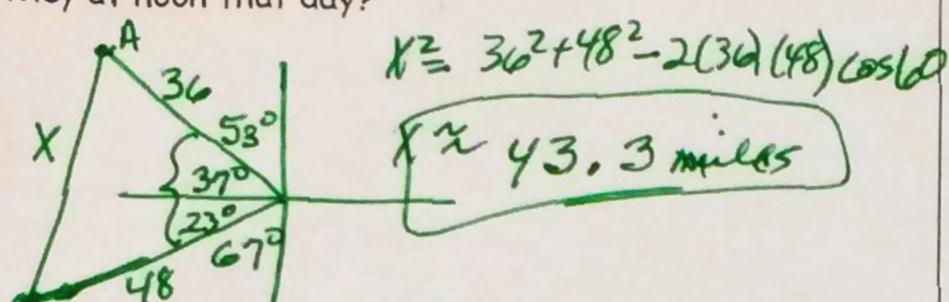
9.5pt2

A= ± (15.3)(11.7) SiNET A= 88.8 pt 18.8 (8.4) (3.3) (7.1) 60.8 pt 2

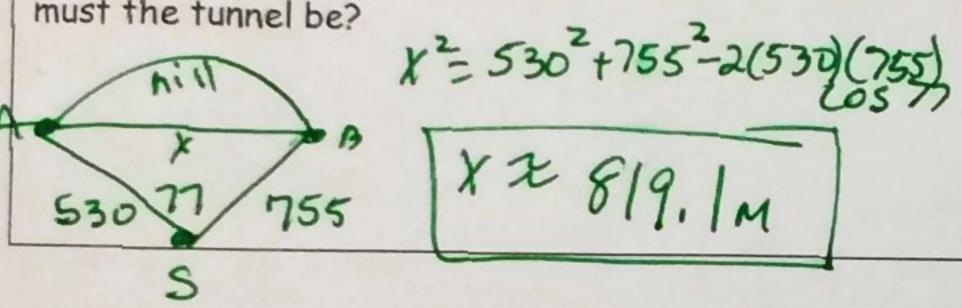
Draw an appropriate picture for each and solve.

Name Key

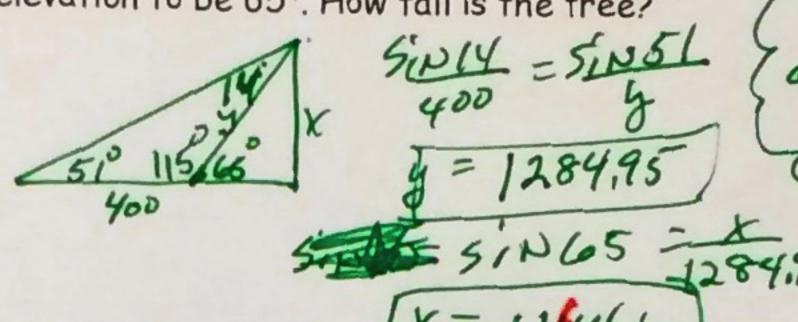
1. Two ships leave port at 9 AM. One travels at a bearing of N 53° W at 12 mph and the other to bearing of S 67° W at 16 mph. Approximately how far apart are they at noon that day?



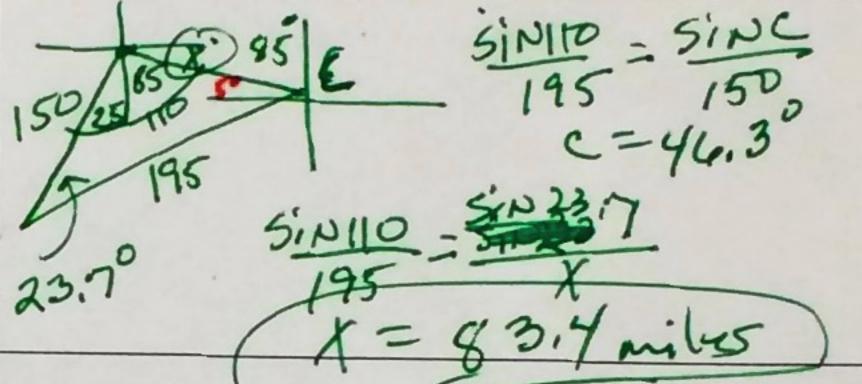
3. A straight tunnel is to be dug through a hill. Two people stand on opposite sides of the hill where the tunnel entrances are to be located. Both can see a stake located 530 meters from the first person and 755 meters from the second. The angle determined by the two people and the stake (the vertex) is 77°. How long must the tunnel be?



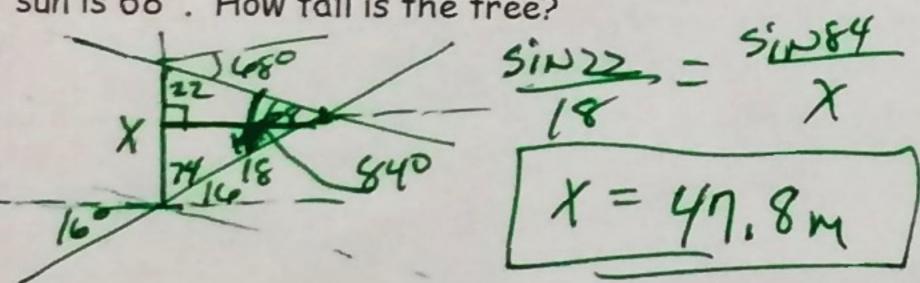
2. Frank sees a tree in the distance and estimates the angle of elevation to the top to be 51°. He walks 400 feet closer to the tree and estimates the angle of elevation to be 65°. How tall is the tree?



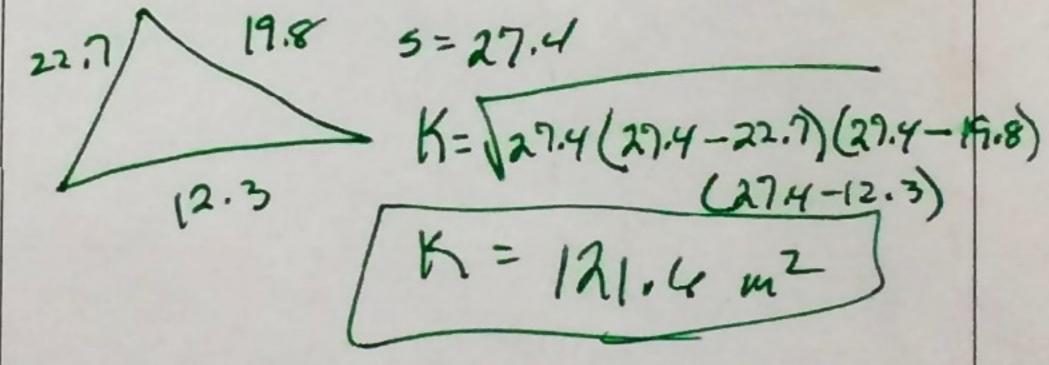
4. A plane flies at a bearing of N 85 W from Chicago. Then takes a bearing of S 25 W for 150 miles. It is then 195 miles from its starting point. How far did the plane fly from Chicago before it made the first turn?



5. A tree grows vertically on a hillside. The hill is at a 16° angle to the horizontal. The tree casts an 18 meter shadow up the hill when the angle of elevation to the sun is 68°. How tall is the tree?

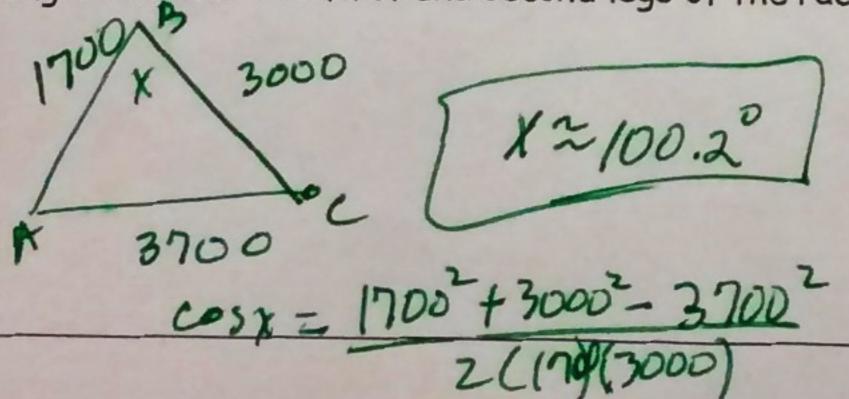


6. Captain Smith needs a new sail for his sail boat. The, three sides of the sail are 22.7 m, 19.8 m and 12.3 m. Find the area of the sail Captain Smith needs.



7. A boat race runs along a triangular course marked by buoys A, B, and C. The race starts with the boats headed west for 3700 meters. The other two sides of the course lie to the north of the first side, and their lengths are 1700 meters and 3000 meters. Find the angle between the first and second legs of the race.

8. A pilot has just started on the glide path for landing at an airport with a runway of 9000 ft. The angles of depression from the plane to the ends of the runway are 17.5° and 18.8°. Find the air distance the plane must travel until touching down on the near end of the runway.



13. 101.2 17.5 9000 X 119,289.1 It