Geometry

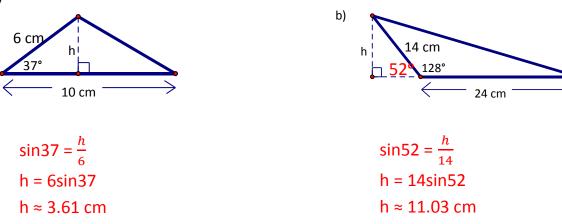
Unit Two - G.SRT.9-11 Review #1 (IC/HW33)

For each multiple choice question, please circle your answer.

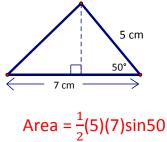
Determine whether the following are (T)rue or (F)alse.

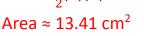
1. When labeling a triangle the convention is to label the side opposite $\angle A$, side a.

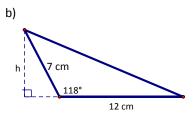
- 2. In a triangle, there will always be three heights.
- 3. The altitude or height of the triangle will always be inside the triangle.
- 4. sin 23° = sin 157°
- 5. cos 35° = sin 55°
- 6. Determine the heights of the given triangles.
- a)

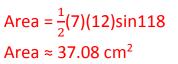


- 7. Determine the area of the given triangles.
- a)





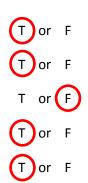


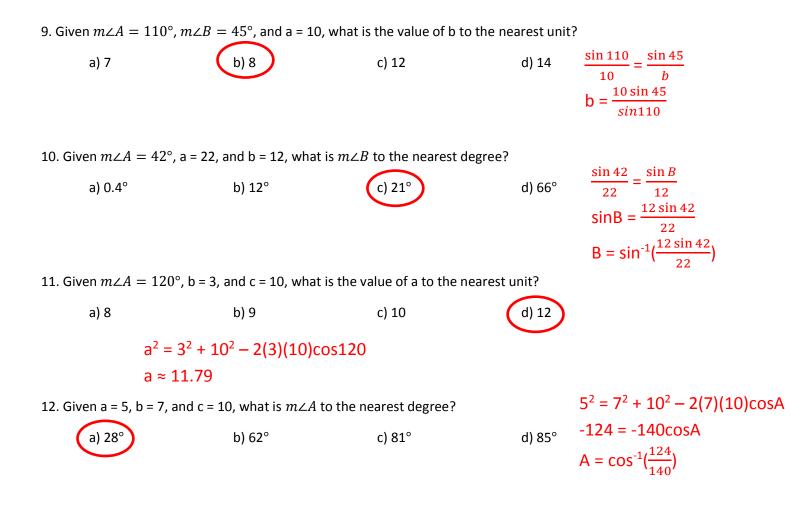


8. Determine the missing angle that makes the equation true. (some new... some review)

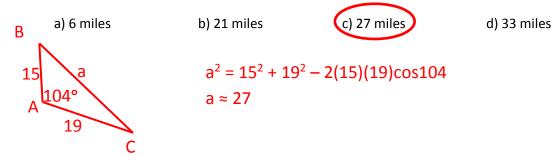
a) $\sin 56^\circ = \sin 124^\circ$ b) $\sin 12^\circ = \cos 78^\circ$ c) $\sin 123^\circ = \sin 57^\circ$

Name: ______ Date: ______ Period: _____





13. A ranger in an observation tower sights a bear 15 miles due north and campers 19 miles to the southeast. If the angle between the two lines of sight is 104°, how far is the bear from the campers, to the nearest mile?



14. A 30-foot guy wire tied to the top of a pole makes a 40° angle with the ground. If the pole is tilted away from the guy wire and makes a 75° angle with the ground, what is the length of the pole, to the nearest foot?

