1. Find the reference angle and 5 coterminal angles (with at least one negative) for 123° .
2. Solve for the sector area. Assume the angle drawn is a central angle.

8in.

1. 

111°

111°

8in.

1. 
2. 
3. 
4. 
5. Graph one period of .
6. Graph one period of .
7. Graph one period of 
8. Graph .
9. 
10. 
11. =
12. A flagpole is 30 feet tall and cast a shadow on the ground. How long is the shadow if the angle of depression from the tip of the pole to the tip of the shadow is 68°?
13. Knowing that the radius of the earth is 3960 miles and that New Orleans, LA and Memphis, TN are on the same longitudinal line, what is the distance between the two cities considering Memphis if at latitude 35°N and New Orleans is at 30°N?
14. Find θ where cos θ= -7/12 and θ ϵ Quadrant III.

9

1. Solve for θ in the triangle to the right.

12

θ

Find all the missing parts of the triangle. Round all angles to the nearest hundredth of a degree and all sides to the hundredth of a unit

1. B = 52.1°

C = 114.8°

b = 37.91cm

1. B = 39°

b = 4.2m

a = 24.1m

1. Lookout station B is located 5 mi due east of station A. The bearing of a fire from A is S 10°10'W and the bearing from B is S 40°20'W. Determine the distance from the fire to B (to the nearest tenth of a mile).
2. Find the measure of angle A, B, and C when a =5km, b=6km, and c=7km.