1. 

Express the angle in decimal degrees to the nearest hundredth:
$16^{\circ} 35^{\prime} 23 "$
2.

## Name two angles coterminal with $125^{\circ}$.

Can you write a formula to express all angles coterminal with $125^{\circ}$ ?
3.

Find the values of the six trigonometric functions of $\theta$ if the terminal side of $\theta$ passes through $\mathrm{P}(-2,1)$.
4.

If $\sin \theta=-\frac{\sqrt{3}}{2}$ and $\cos \theta<0$,
find the other five trigonometric functions.

## 5.

## Express in radian measures:

(leave answers in terms of $\pi$ )

$$
\begin{array}{lll}
\text { a.) }-84^{\circ} & \text { b.) } 108^{\circ} & \text { c.) } 630^{\circ}
\end{array}
$$

6. 

Determine the arc length and area of the sector of a circle if the central angle has measure $45^{\circ}$ and the radius is 2.

## 7.

## Find the exact value of $\tan \frac{25 \pi}{6}$

8. 

Express as a function of an acute angle:
a.) $\cos 118^{\circ}$
b.) $\sin \left(-195^{\circ}\right)$

## c.) $\sec \left(300^{\circ}\right)$

9. 

If $0<\theta<2 \pi$ determine the values of $\theta$ that make:
a.) $\sin \theta=1$

$$
\text { b.) } \csc \theta=-\frac{2 \sqrt{3}}{3}
$$

## 10.

## Explain why the statement $\cos \theta=1.2$ cannot be correct.

## 11.

## Evaluate $\sin \left(-\frac{\pi}{2}\right)+\cos ^{2}\left(\frac{3 \pi}{4}\right)$

