Name: ______ Date: _____

Instructions: Please complete the following problems. Each answer is associated with a letter that creates a secret phrase (hint: a somewhat illegal Georgia Tech tradition). You can find the key on the last page.

Problem 1. Convert -64° to radians.

Problem 2. Convert 120° to radians.

Problem 3. Convert $\frac{5\pi}{12}$ to degrees.

Problem 4. Convert $-\frac{\pi}{3}$ to degrees.

Problem 5. Find the angle between 0 and 2π radians that is coterminal with $-\frac{\pi}{4}$ radians

Problem 6. Find the angle between 0 and 360° that is coterminal with 400°

Problem 7. Find the complement of 60°

Problem 8. Find the supplement of 35°

Problem 9. Find the arc length of two points on a circle where the radius is r=7 inches and the angle the two points create is $\theta=\frac{\pi}{2}$

Problem 10. If $\theta = \frac{1}{3}$ radians, s = 7 centimeters, what is r = ?

Problem 11. What is the area of a sector if $\theta = 5$ radians, r = 12 centimeters?

Problem 12. Solve the word problem: If you eat a slice of pizza with a diameter of 10 inches and the slice makes a 45° angle. How many square inches of pizza did you eat?

Α	-60°
В	Yes
С	0
D	False
B C D E	75°
	$360 \ cm^2$
G	145°
Н	21~cm
I	40°
J	90°
K	180°
L	$\frac{7\pi}{4}$
M	$\frac{\sqrt{2}}{2}$
N	30°
О	$\frac{\sqrt{3}}{2}$
P	0,1,0,und,1,und
Q	2π
R S T	$\begin{array}{c} \frac{3\pi}{2} \\ -16\pi \end{array}$
S	$-\frac{16\pi}{45}$
T	$ \begin{array}{r} -\frac{45}{45} \\ \frac{2\pi}{3} \\ 7\pi \end{array} $
T	2
T	$\frac{25\pi}{8}in^2$
U	5~cm
V	True
W	$300 \ cm^2$
X	-1,0,und,-1,und,0
Y	π
Z	No

What was the phrase you found?