

Spring Break Packet for Precalculus

Name: _____

-Complete each problem.

-Clearly box all answers.

-Clearly show all work that leads to the correct answer.

-Due on April 7th. If school is cancelled beyond April 7th you will find directions for additional work (handed out separately today) printed at the end of the break packet.

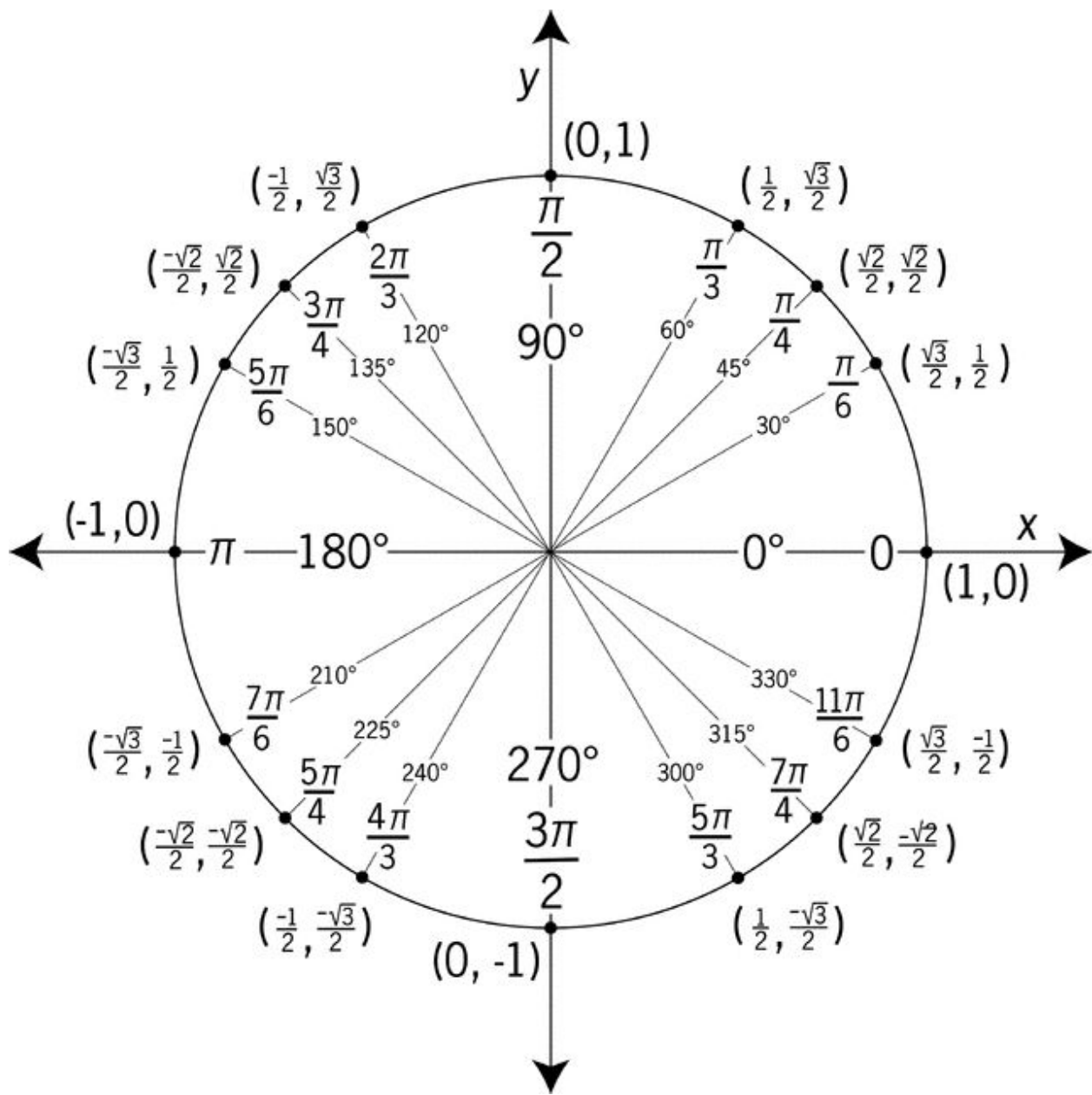
The additional work includes reading and notes from a college course as well as a problem set.

-Grading is for accuracy AND work completion.

-Turn in any necessary scratch work that doesn't cleanly fit on the packet labelled by problem on a separate sheet of paper.

Grade: _____

Work Habits: _____



1) Answer each question in the cell below

$\sin(90)$	$\cos(180)$	$\tan(45)$	$\sec(300)$	$\csc(225)$	$\cot(60)$
$\sin(1035)$	$\cos(-315)$	$\tan(7\pi/6)$	$\sec(13\pi/6)$	$\csc(-8\pi/3)$	$\cot(-4\pi)$
$\arccos(-1/2)$	$\cos^{-1}(0)$	$\sin^{-1}(\sqrt{2}/2)$	$\sin^{-1}(-\sqrt{3}/2)$	$\arctan(-1)$	$\tan^{-1}(-\sqrt{3})$

2) In the space below make quick sketches of the graphs of sin, cos, tan, cot, sec and csc. Below each graph write 2 facts or reminders you can use to remember it.

Sketch:	Sketch:	Sketch:
Sketch:	Sketch:	Sketch:

This page left blank for you to freehand sketch the unit circle

5) Mr. Wachtel answered the questions below incorrectly. For each one write the correct answer and then explain Mr. Wachtel's mistake.

Question	Correct Answer	Mistake
$\sin(60) = 1/2$		$1/2$ is the cosine of 60, sin is y.
$\sin(-270) = -1$	1	
$\sec(315) = \frac{2}{\sqrt{2}}$		
$\tan^{-1}(-\sqrt{3}/3) = 300$		
$\arccos(-1/2) = -60$		
<i>(Create a prompt that would make sense with the given answers)</i>	Undefined	$1/0$ is undefined, not zero.