

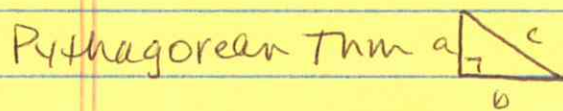
(Covers 13.1 → 13.6, 13.8, 14.3 In Book)

Things You Need to Know for Midterm
(and, no, you can't use this sheet on test)

Amplitude = $\frac{\max - \min}{2}$ Eqn of Axis: $y = \frac{\max + \min}{2}$

Arc Length $s = r\theta$
radians

Degrees \rightarrow Radians $\times \frac{\pi}{180}$
Radians \rightarrow Degrees $\times \frac{180}{\pi}$



$a^2 + b^2 = c^2$

$b = \#$ of cycles from
 $0 - 2\pi$: $\sin + \cos$
 $0 - \pi$: \tan

$y = a \sin b\theta$

$y = a \cos b\theta$

$y = a \tan b\theta$

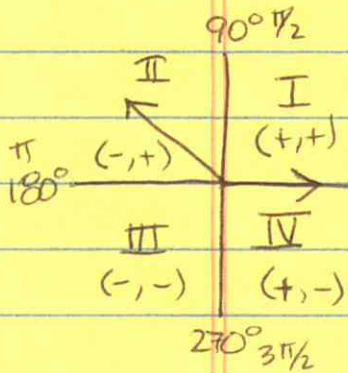
x	y
0	0
$\frac{1}{4}P$	a
$\frac{1}{2}P$	0
$\frac{3}{4}P$	-a
P	0

x	y
0	a
$\frac{1}{4}P$	0
$\frac{1}{2}P$	-a
$\frac{3}{4}P$	0
P	a

x	y
0	0
$\frac{1}{2}P$	undefined (asymptote)
P	0
$\frac{3}{2}P$	undefined (asymptote)
2P	0

$b = \frac{2\pi}{p}$ $p = \frac{2\pi}{b}$

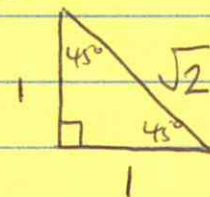
$b = \pi/p$
 $p = \pi/b$



Coterminal \angle 's

+/- 360° until \angle is between

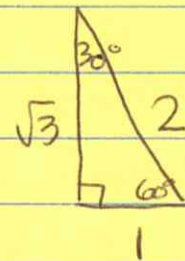
$0^\circ - 360^\circ$



+ \angle 's open counter clockwise

- \angle 's open clockwise

$\sin +$	all +
$\tan +$	$\cos +$



SOHCAHTOA

$\sin \theta = \frac{O}{H}$

$\csc \theta = \frac{H}{O}$

$\cos \theta = \frac{A}{H}$

$\sec \theta = \frac{H}{A}$

$\tan \theta = \frac{O}{A}$

$\cot \theta = \frac{A}{O}$

} can't leave

} \sqrt 's in denominator

} multiply by $\frac{\sqrt{2}}{\sqrt{2}}$ or $\frac{\sqrt{3}}{\sqrt{3}}$