Turn in GrHW with
work stapled to back.

Set HW due today on the corner of your desk. I will check as you take the GHW Quiz.

Dec 4-2:17 PM

Ditto 6.1#46

$\sin\frac{4\pi}{3}=-\frac{\sqrt{3}}{2}$ $\cos\frac{4\pi}{3}=-\frac{1}{2}$ $\tan\frac{4\pi}{3}=\sqrt{3}$

$\csc\frac{4\pi}{3}=-\frac{2\sqrt{3}}{3}$ $\sec\frac{4\pi}{3}=-2$ $\cot\frac{4\pi}{3}=\frac{\sqrt{3}}{3}$

p. 483: 10-18

10. $\frac{11\pi}{3}$, $-\frac{\pi}{3}$

11. $\frac{19\pi}{6}$, $-\frac{5\pi}{6}$

12. 3π, $-\pi$

13. $-\frac{8\pi}{3}$, $\frac{4\pi}{3}$

14. $\frac{5\pi}{4}$, $-\frac{11\pi}{4}$

15. Complement: $\frac{\pi}{6}$ Supplement: $\frac{2\pi}{3}$

16. Complement: $\frac{\pi}{12}$ Supplement: $\frac{7\pi}{12}$

17. Complement: $\frac{\pi}{8}$ Supplement: $\frac{5\pi}{8}$

18. Complement: $\frac{\pi}{4}$ Supplement: $\frac{3\pi}{4}$

Quiz 2 No Calc Monday - All notes through yesterday

Requiz 1 before end of day Wed with me or in test center. MUST turn in completed review assignment first for Requiz to count. You can turn it in at the Test Center, but it has to be before you take the ReQuiz.

After school: today until 3:00
Tues & Wed: until 3:00

Test next Friday

(15) $\frac{5\pi}{12}$ → Compl: $\frac{\pi}{2}-\frac{5\pi}{12}=\frac{6\pi}{12}-\frac{5\pi}{12}=\frac{\pi}{12}$

Suppl: $\frac{12\pi}{12}-\frac{5\pi}{12}=\frac{7\pi}{12}$

Coterminal $\theta \pm 2\pi$

Compl $\frac{\pi}{2}-\theta$

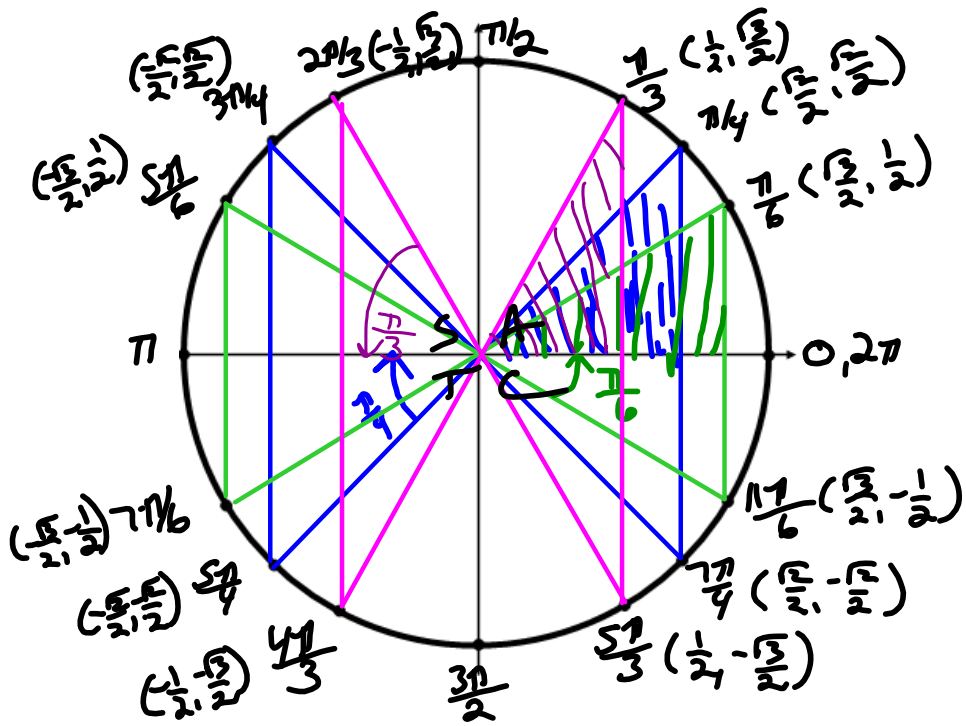
Suppl $\pi-\theta$

Dec 15-3:54 PM

Sine and Cosine Curves

Dec 3-9:52 AM

Pull out to use with today's notes



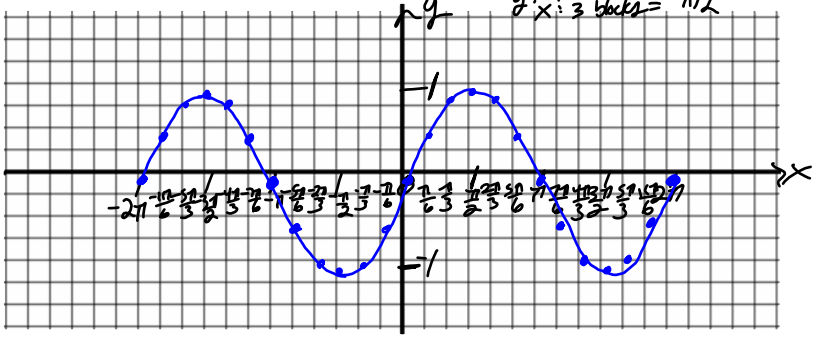
Dec 3-8:37 AM

$y = \sin x$

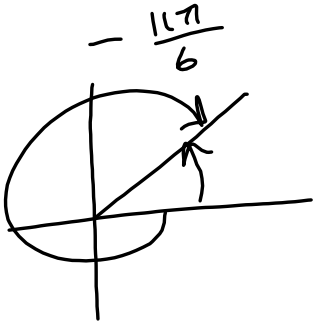
x	radians	0	$\frac{\pi}{6}$	$\frac{\pi}{3}$	$\frac{\pi}{2}$	$\frac{2\pi}{3}$	$\frac{5\pi}{6}$	π	$\frac{7\pi}{6}$	$\frac{4\pi}{3}$	$\frac{3\pi}{2}$	$\frac{5\pi}{3}$	$\frac{11\pi}{6}$	2π
y	exact value	0	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$	1	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	0	$-\frac{1}{2}$	$-\frac{\sqrt{3}}{2}$	-1	$-\frac{\sqrt{3}}{2}$	$-\frac{1}{2}$	0
	decimal	0	.5	.9	1	.9	.5	0	-.5	-.9	-1	-.9	-.5	0

x	radians	-2π	$-\frac{11\pi}{6}$	$-\frac{5\pi}{3}$	$-\frac{3\pi}{2}$	$-\frac{4\pi}{3}$	$-\frac{7\pi}{6}$	$-\pi$	$-\frac{5\pi}{6}$	$-\frac{2\pi}{3}$	$-\frac{\pi}{2}$	$-\frac{\pi}{3}$	$-\frac{\pi}{6}$	0
y	exact value	0	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$	1	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	0	$-\frac{1}{2}$	$-\frac{\sqrt{3}}{2}$	-1	$-\frac{\sqrt{3}}{2}$	$-\frac{1}{2}$	0
	decimal	0	.5	.9	1	.9	.5	0	-.5	-.9	-1	-.9	-.5	0

y: 3 ratio
y: x axis
y: 4 blocks = 1 unit
y: x: 3 blocks = $\pi/2$



Dec 3-9:25 AM



Discuss Pythagorean Triples since no calculator on quiz. Students write down as many as you know. See most common triples under this box.

3 - 4 - 5
5 - 12 - 13
8 - 15 - 17
7 - 24 - 25

Review: Start with 1 - 4 and check each answer as you work.

Jan 8-2:43 PM

Review for quiz: Trig

I. Find the supplement and complement for each:

a) $\frac{+2\pi}{5}$ b) $\frac{3\pi}{8}$

Dec 11-5:38 PM

Review for quiz: Trig

I. Find the supplement and complement for each:

a) $\frac{+2\pi}{5}$

C: $\frac{\pi}{10}$

S: $\frac{3\pi}{5}$

b) $\frac{3\pi}{8}$

C: $\frac{\pi}{8}$

S: $\frac{5\pi}{8}$

Dec 11-5:38 PM

2. If the terminal side of an angle in standard position contains the point (-4,2) find the value of all six trig functions:

2b) Find a positive & negative angle coterminal to $\frac{9\pi}{16}$

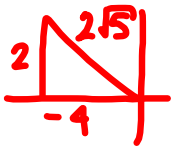
Dec 11-5:39 PM

2. If the terminal side of an angle in standard position contains the point (-4,2) find the value of all six trig functions:

$\sin t = \frac{\sqrt{5}}{5}$ $\quad \csc t = \sqrt{5}$

$\cos t = -\frac{2\sqrt{5}}{5}$ $\quad \sec t = -\frac{\sqrt{5}}{2}$

$\tan t = -\frac{1}{2}$ $\quad \cot t = -2$



2b) Find a positive & negative angle coterminal to $\frac{9\pi}{16}$

+: $\frac{9\pi}{16} + \frac{32\pi}{16} = \frac{41\pi}{16}$

−: $\frac{9\pi}{16} - \frac{32\pi}{16} = -\frac{23\pi}{16}$

Dec 11-5:39 PM

3. Complete the table:

Trig function	0	$\frac{\pi}{6}$	$\frac{\pi}{4}$	$\frac{\pi}{3}$	$\frac{\pi}{2}$	$\frac{2\pi}{3}$
Sin						
Cos						
Tan						
Csc						
Sec						
Cot						

Dec 11-5:39 PM

3. Complete the table:

Trig function	0	$\frac{\pi}{6}$	$\frac{\pi}{4}$	$\frac{\pi}{3}$	$\frac{\pi}{2}$	$\frac{2\pi}{3}$
Sin	0	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	1	$\frac{\sqrt{3}}{2}$
Cos	1	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$	0	$-\frac{1}{2}$
Tan	0	$\frac{\sqrt{3}}{3}$	1	$\sqrt{3}$	und	$-\sqrt{3}$
Csc	und	2	$\sqrt{2}$	$\frac{2\sqrt{3}}{3}$	1	$\frac{2\sqrt{3}}{3}$
Sec	1	$\frac{2\sqrt{3}}{3}$	$\sqrt{2}$	2	und	-2
Cot	und	$\sqrt{3}$	1	$\frac{\sqrt{3}}{3}$	0	$-\frac{\sqrt{3}}{3}$

Dec 11-5:39 PM

4. Evaluate: $\cos\frac{2\pi}{3}\sin\frac{11\pi}{6} - \sec\frac{5\pi}{6}\tan\frac{2\pi}{3}$

Dec 11-5:40 PM

4. Evaluate: $\cos\frac{2\pi}{3}\sin\frac{11\pi}{6} - \sec\frac{5\pi}{6}\tan\frac{2\pi}{3}$

$\left(-\frac{1}{2}\right)\left(-\frac{1}{2}\right) - \left(-\frac{2\sqrt{3}}{3}\right)\left(-\frac{\sqrt{3}}{1}\right)$

$= \frac{1}{4} - 2 = \frac{1}{4} - \frac{8}{4} = -\frac{7}{4}$

Dec 11-5:40 PM

5. Evaluate each

a) $\sin\frac{3\pi}{2}$ = -1

b) $\sec\frac{7\pi}{6}$ = $-\frac{2\sqrt{3}}{3}$

c) $\csc\frac{5\pi}{3}$ = $-\frac{2\sqrt{3}}{3}$

d) $\cot\frac{-2\pi}{3}$ = $\frac{\sqrt{3}}{3}$

e) $\cot 2\pi$ = und

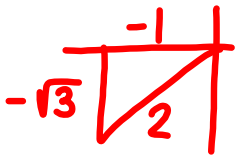
Dec 11-5:39 PM

6. Find the value of the remaining six trig functions if $\sec x = -2$ and $\cot x > 0$

$\sin t = -\frac{\sqrt{3}}{2}$ $\quad \csc t = -\frac{2\sqrt{3}}{3}$

$\cos t = -\frac{1}{2}$ $\quad \sec t = -2$

$\tan t = \sqrt{3}$ $\quad \cot t = \frac{\sqrt{3}}{3}$



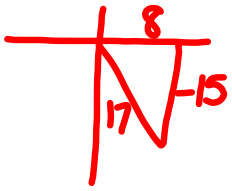
Dec 11-5:40 PM

7. Find the value of the remaining six trig functions if $\cos x = \frac{+8}{17}$ and $\sin x < 0$

$\sin x = -\frac{15}{17}$ $\quad \csc x = -\frac{17}{15}$

$\cos x = \frac{8}{17}$ $\quad \sec x = \frac{17}{8}$

$\tan x = -\frac{15}{8}$ $\quad \cot x = -\frac{8}{15}$



Dec 11-5:40 PM

8. a. $\frac{\sec x}{\csc x} = \frac{\frac{1}{\cos x}}{\frac{1}{\sin x}} \cdot \frac{\cos x \sin x}{\cos x \sin x}$

$= \frac{\sin x}{\cos x}$

$= \tan x$

b. $(\sin x)(\cot x) = \frac{\sin x}{1} \cdot \frac{\cos x}{\sin x} = \cos x$

Dec 23-8:36 AM

Homework:

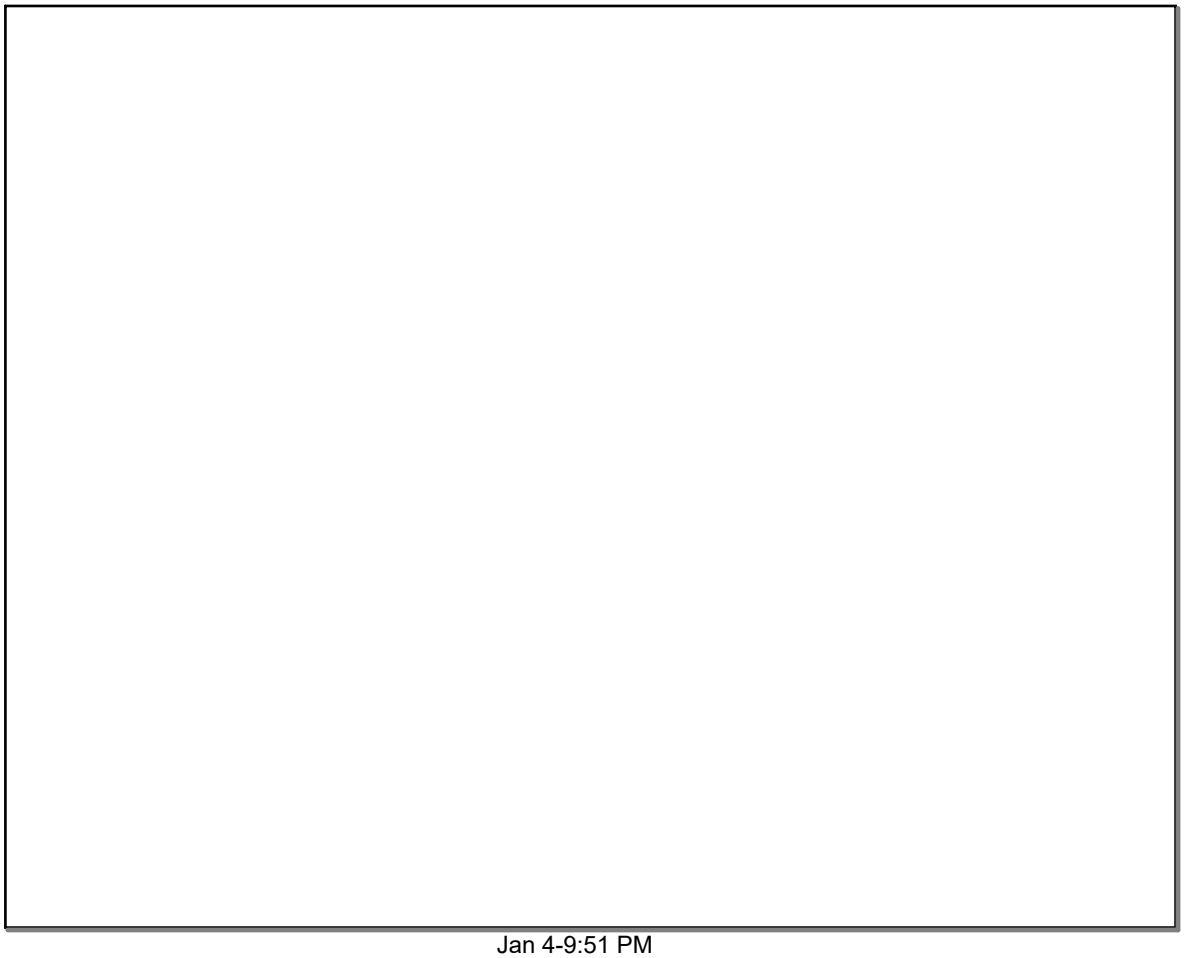
Finish Review For Quiz

pg. 483 : 9, 19, 20

pg 501: 7, 8, 10, 13, 14

Quiz No Calc Monday - All notes up to today

Dec 3-8:39 AM



Jan 4-9:51 PM