

Bellwork Friday 02/02

Graph one cycle of all 6 trig functions

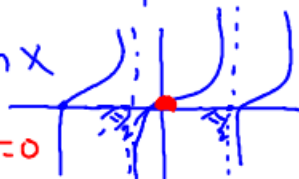
1) $y = \sin x$



2) $y = \cos x$



3) $y = \tan x$



$0^\circ (1, 0)$

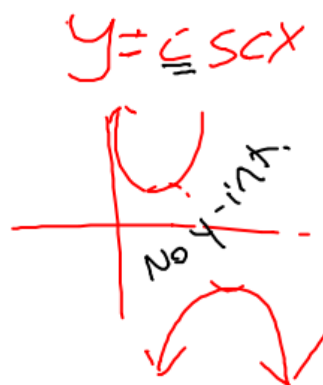
$\frac{\pi}{2} (0, 1)$

$\tan 0 = \frac{\sin}{\cos} = \frac{0}{1} = 0$
 $\tan \frac{\pi}{2} = \frac{1}{0}$ und.



$\sec = \frac{1}{\cos} = \frac{1}{1}$

$\cos 0^\circ = 1$



$\csc = \frac{1}{\sin} = \frac{1}{0}$ und.

$\sin 0^\circ = 0$



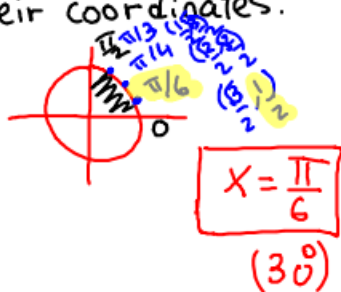
$\cot$ does not pass 0
 $\tan$ passes through 0

Section 4.5 Day 2

Ex 1:
Given that $\sin x = 1/2$ $\rightarrow$ y coord.
and $0 < x < \pi/2$

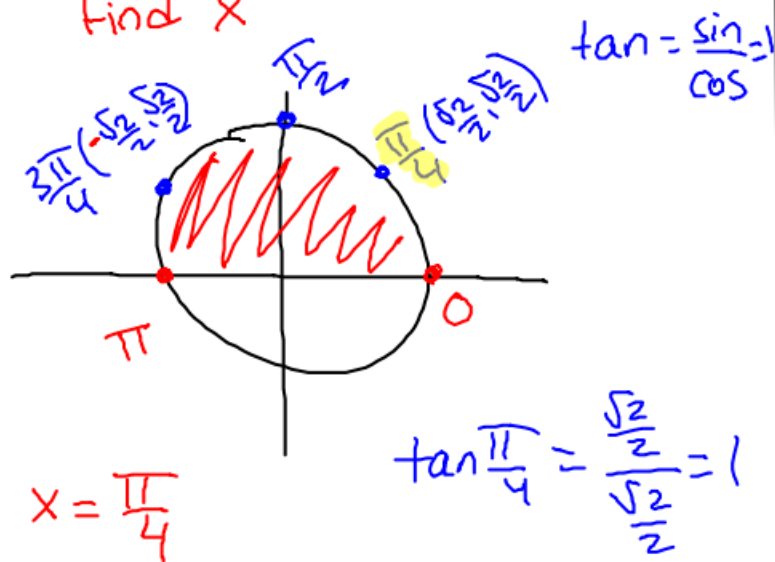
Find x (Find the actual angle)

- Draw a unit circle and shade the given interval
- Mark all the angles in the given interval and write their coordinates.

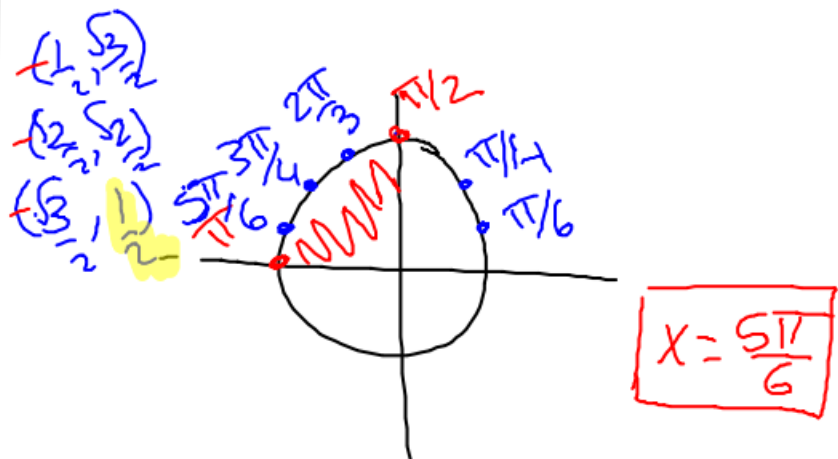


Ex2: Given that $\tan x = 1$
and $0 \leq x \leq \pi$

Find x



Ex3: Given that $\csc x = 2$
and $\frac{\pi}{2} \leq x \leq \pi$ Find x .



$$\csc = \frac{1}{\sin}$$

$$\sin x = \frac{1}{2}$$

