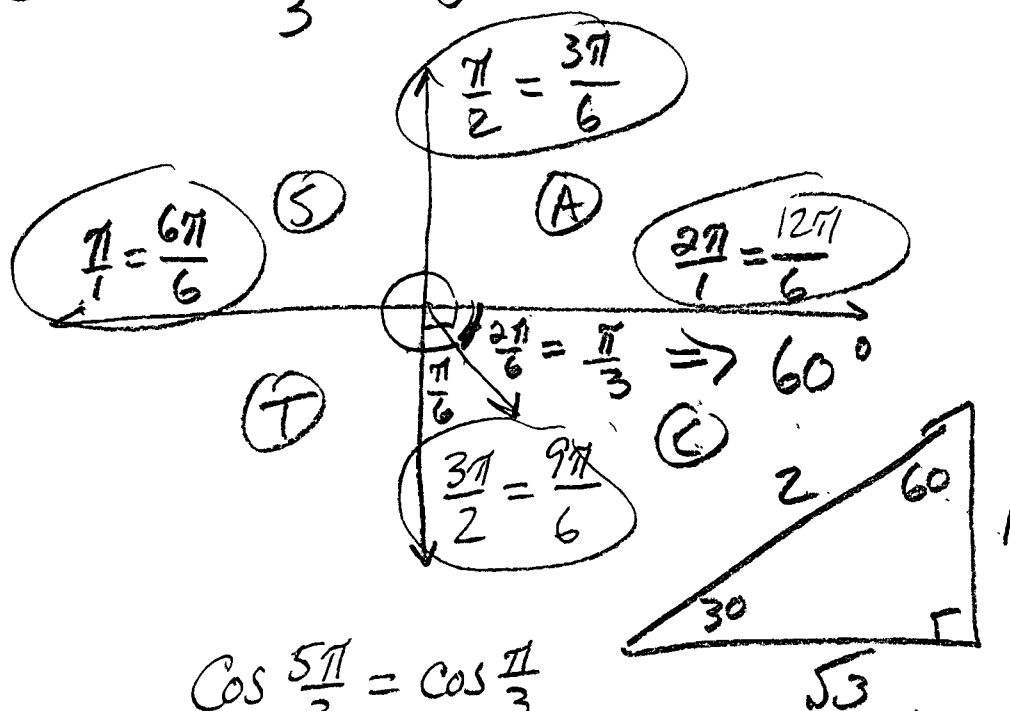


Algebra 2 Tues. 12-11-12

CLASS NOTES

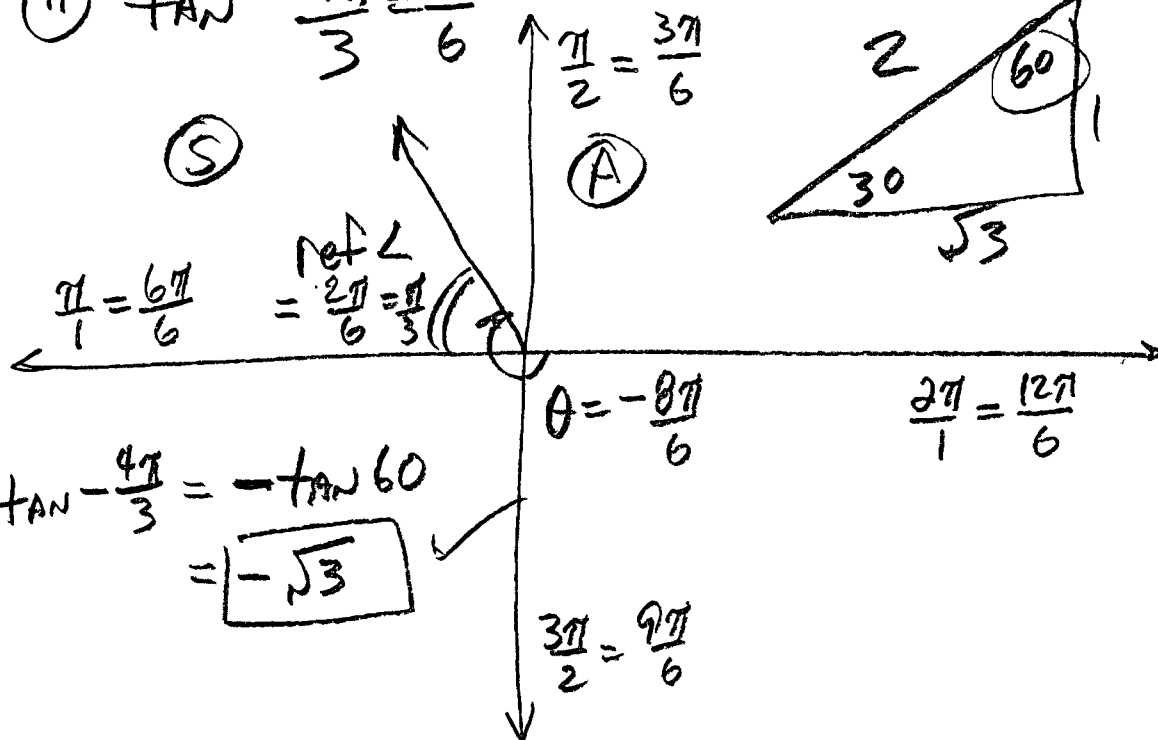
(12) $\cos \frac{5\pi}{3} = \frac{10\pi}{6}$



$$\cos \frac{5\pi}{3} = \cos \frac{\pi}{3} = \boxed{\frac{1}{2}}$$

$$\frac{\pi}{3} \cdot \frac{180 \text{ deg}}{\pi \text{ rad}} = 60$$

(11) $\tan -\frac{4\pi}{3} = \frac{-8\pi}{6}$



$$\tan -\frac{4\pi}{3} = -\tan 60 = \boxed{-\sqrt{3}}$$

(15) $\sec - \frac{19\pi}{6}$

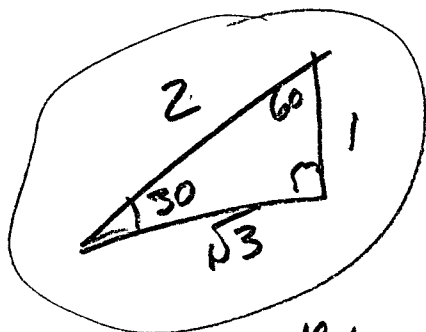
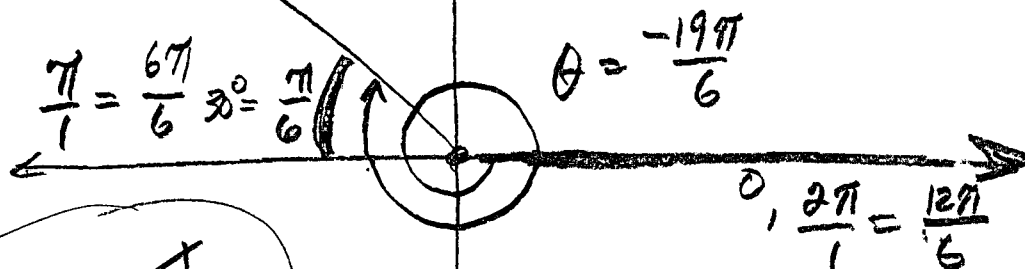
$\downarrow$
 $\left(\frac{1}{\cos} \right)$ $\begin{matrix} \textcircled{S} & \textcircled{A} \\ \textcircled{7} & \textcircled{6} \end{matrix}$

$\curvearrowright \oplus$

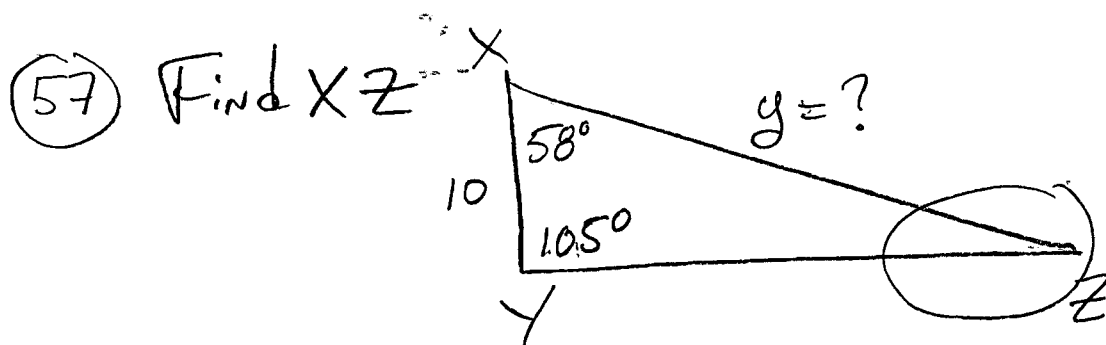
$\curvearrowleft \ominus$

$\textcircled{S}$

$\frac{\pi}{2} = \frac{3\pi}{6}$ $\textcircled{A}$



$$\sec - \frac{19\pi}{6} = -\sec \frac{\pi}{6} = -\frac{2}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \boxed{-\frac{2\sqrt{3}}{3}}$$



ASA $\Rightarrow$ LOS

$$Z = 180 - (163^\circ) = 17^\circ$$

$\oplus$ REF L

$$\frac{\sin 17}{10} = \frac{\sin 75}{y}$$

$$\frac{y \sin 17}{\sin 17} = \frac{10 \sin 75}{\sin 17}$$

$$y = \frac{10 (0.9659)}{(0.2924)}$$

$$y = \frac{9.659}{0.2924} = 33.033$$

$$\boxed{y = 33.0}$$

Things to Memorize

