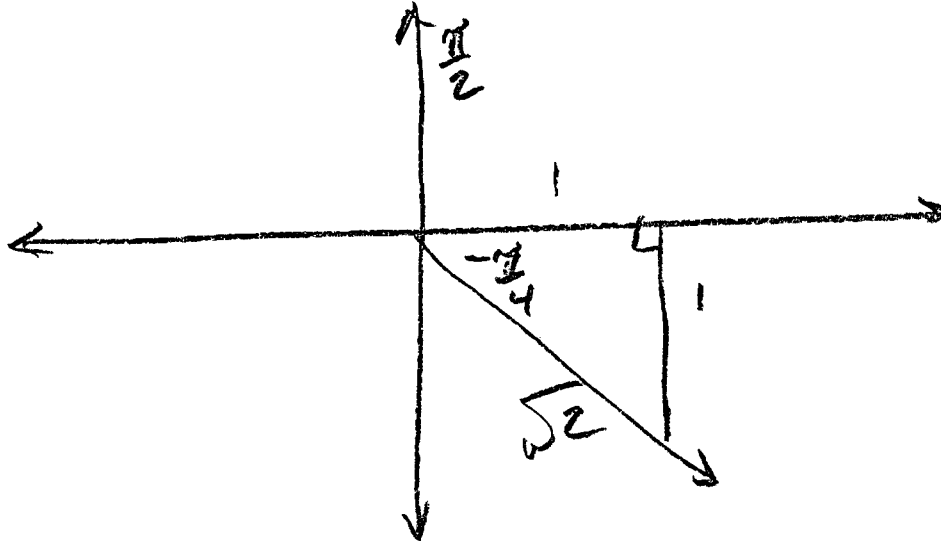


pg 79 EXACT

$$\textcircled{10} \sin\left(-\frac{\pi}{4}\right)$$

$$= \boxed{-\frac{\sqrt{2}}{2}}$$

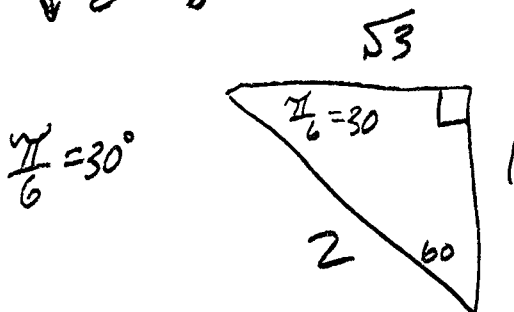
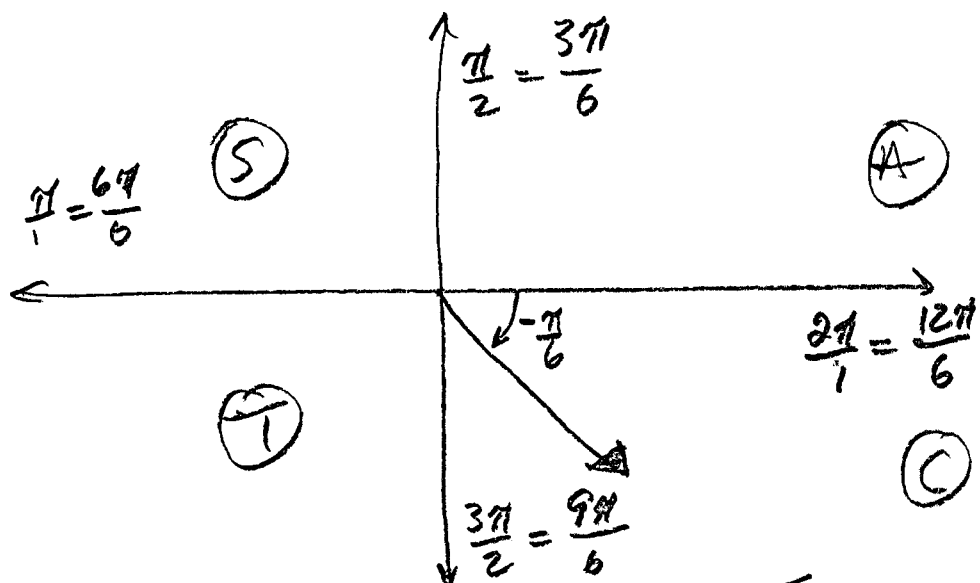


Mth 113

TUES. 1-29-13

CLASS  
NOTES

(14)  $\cos\left(-\frac{\pi}{6}\right)$  EXACT



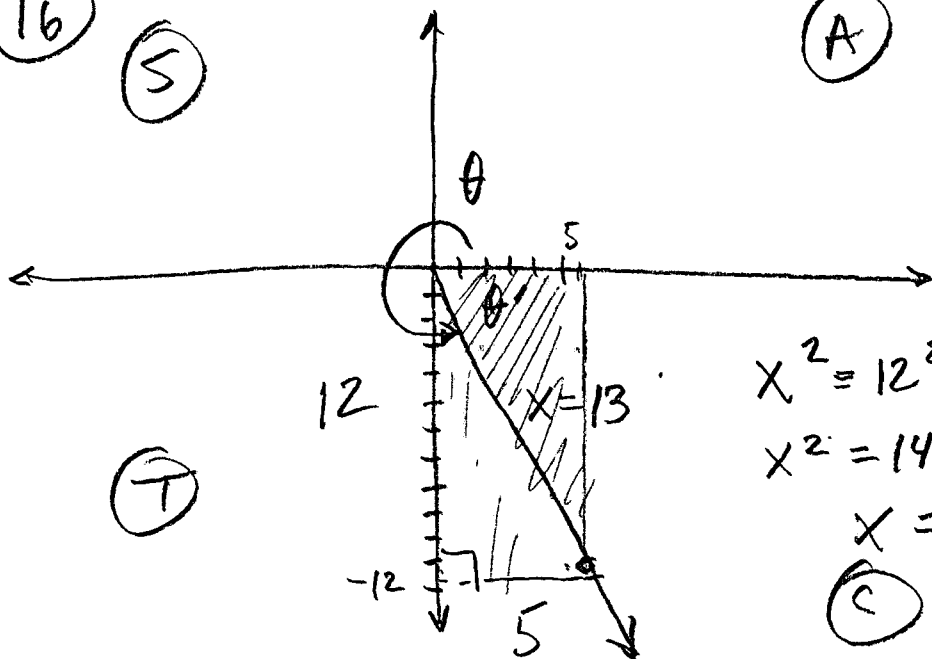
$$\cos\left(-\frac{\pi}{6}\right) = \boxed{+\cos\left(\frac{\pi}{6}\right) = \frac{\sqrt{3}}{2}}$$

Pg 82 (5, -12)

(16)

(5)

(A)

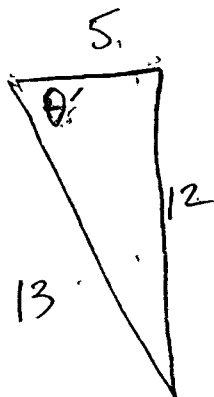


$$x^2 = 12^2 + 5^2$$

$$x^2 = 144 + 25 = 169$$

$$x = 13$$

(C)



$$\sin \theta = -\frac{12}{13}$$

$$\cos \theta = +\frac{5}{13}$$

$$\tan \theta = -\frac{12}{5}$$

$$\csc \theta = -\frac{13}{12}$$

$$\sec \theta = +\frac{13}{5}$$

$$\cot \theta = -\frac{5}{12}$$

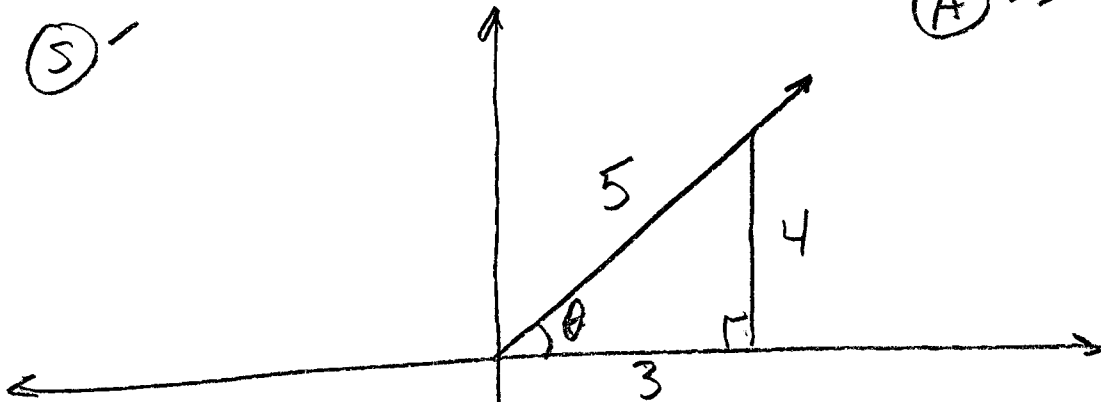
pg 82

(56)

$$\sin \theta = \frac{4}{5}, \quad \cos \theta > 0$$

(5)

(A)



(7)

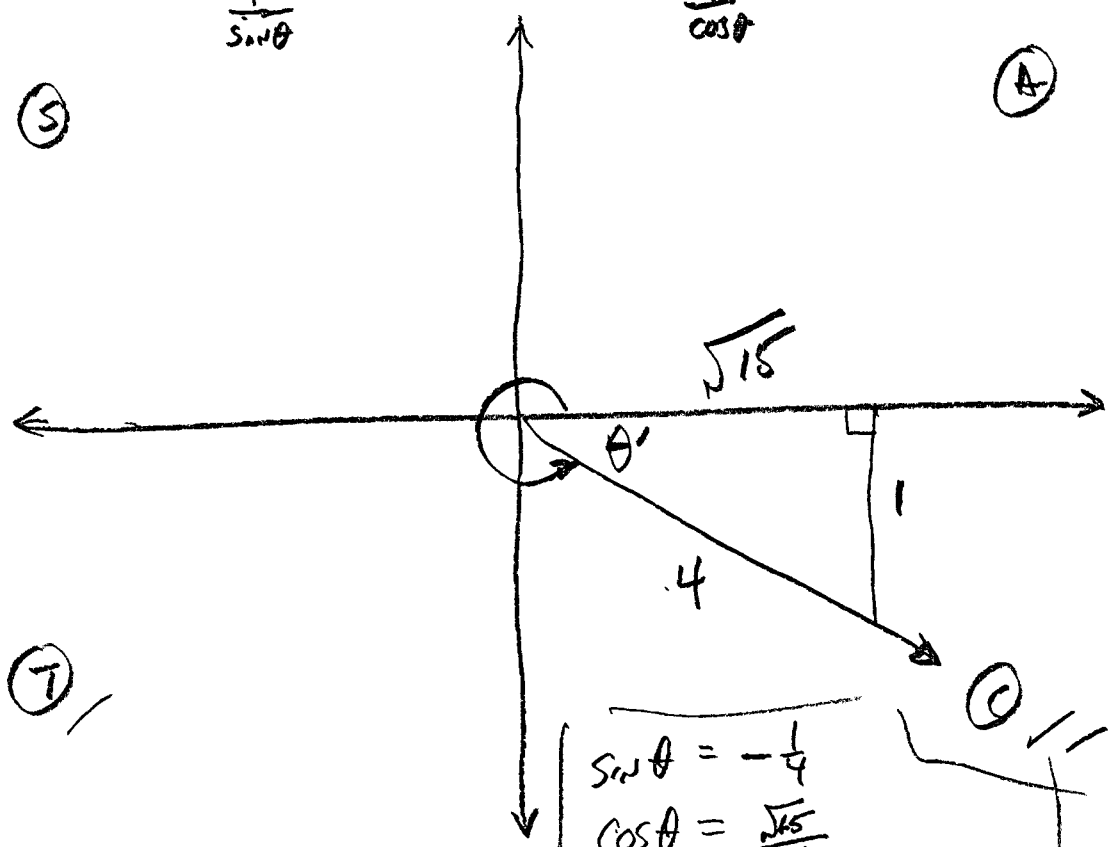
(C)

$$\begin{aligned} \sin^{-1}(0.8) &= \theta \\ 53.13^\circ &= \theta \end{aligned}$$

$$\begin{aligned} \cos \theta &= \frac{3}{5} \\ \tan \theta &= \frac{4}{3} \\ \sec \theta &= \frac{5}{3} \\ \csc \theta &= \frac{5}{4} \end{aligned}$$

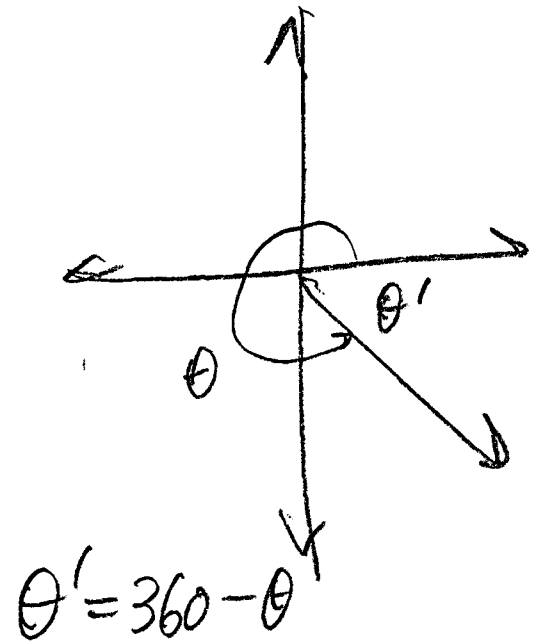
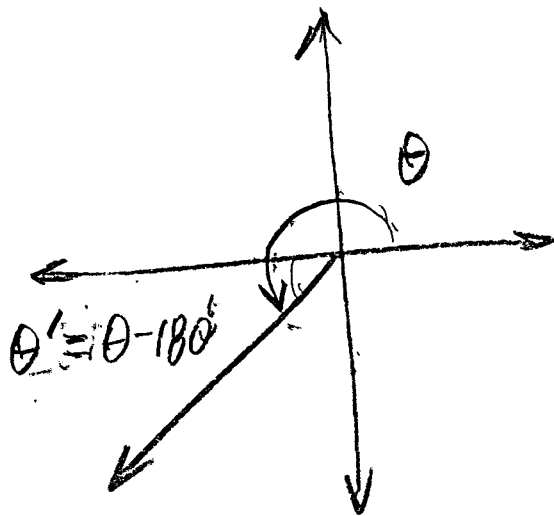
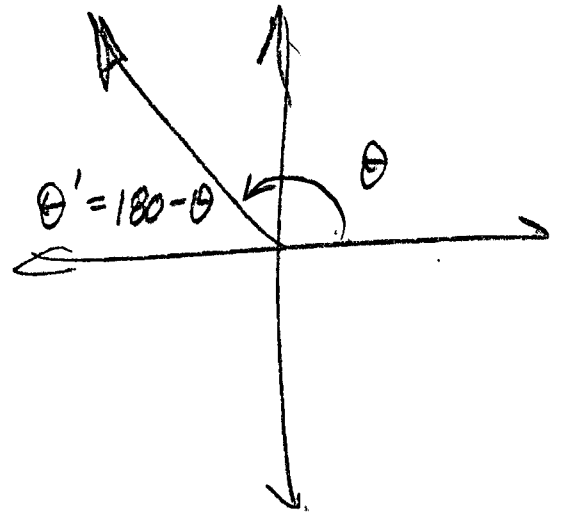
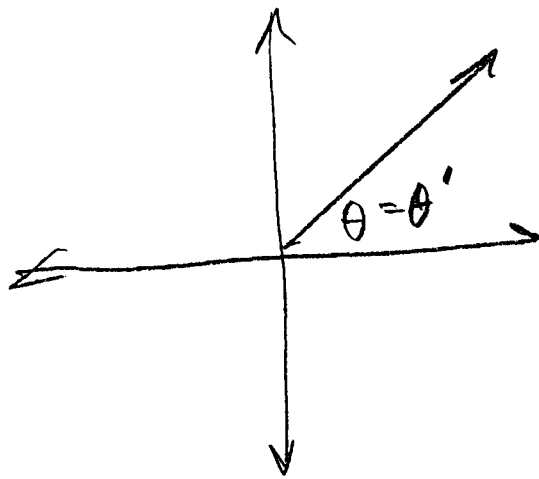
$$\cot \theta = \frac{3}{4}$$

(6)  $\text{csc } \theta = -4$  ,  $\text{sec } \theta > 0$   
 $\Downarrow$   $\frac{1}{\sin \theta}$   $\Downarrow$   $\frac{1}{\cos \theta}$



$\sin \theta = -\frac{4}{5}$   
 $\cos \theta = \frac{\sqrt{15}}{5}$   
 $\tan \theta = -\frac{4}{\sqrt{15}} = -\frac{4\sqrt{15}}{15}$   
 $\cot \theta = -\sqrt{15}$   
 $\sec \theta = \frac{5}{\sqrt{15}} = \frac{4\sqrt{15}}{15}$

$\theta = 360 - \sin^{-1}\left(\frac{4}{5}\right)$   
 $\theta = 360 - 53.13$   
 $\theta = 306.87^\circ$



Reference Angles