

Mth 113

Weds 1-16-13

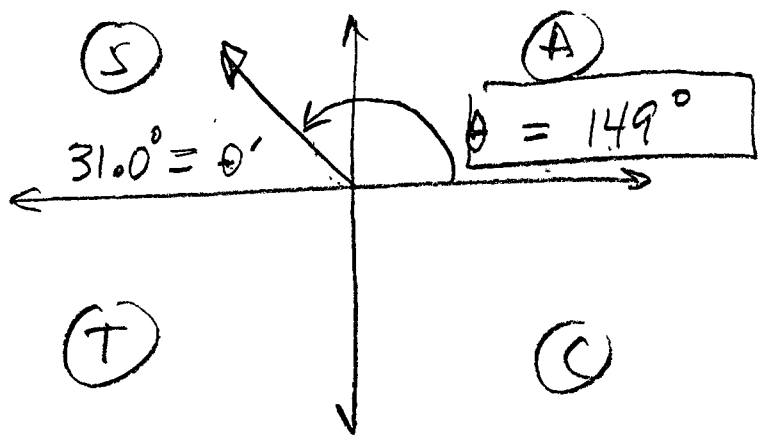
CLASS NOTES

least, non-negative measure of  $\theta$  to the nearest  $.1^\circ$

EX1

pg 56

$\sin \theta = .5150, \cos \theta < 0$



EX2-4B  
pg 57

$(3, -8)$  is on terminal side of  $\theta$   
Draw, EXACT TRIG ratios, Least + m.l. to tenth

(A)  $\sin \theta = \frac{-8}{\sqrt{73}} = \frac{-8\sqrt{73}}{73}$

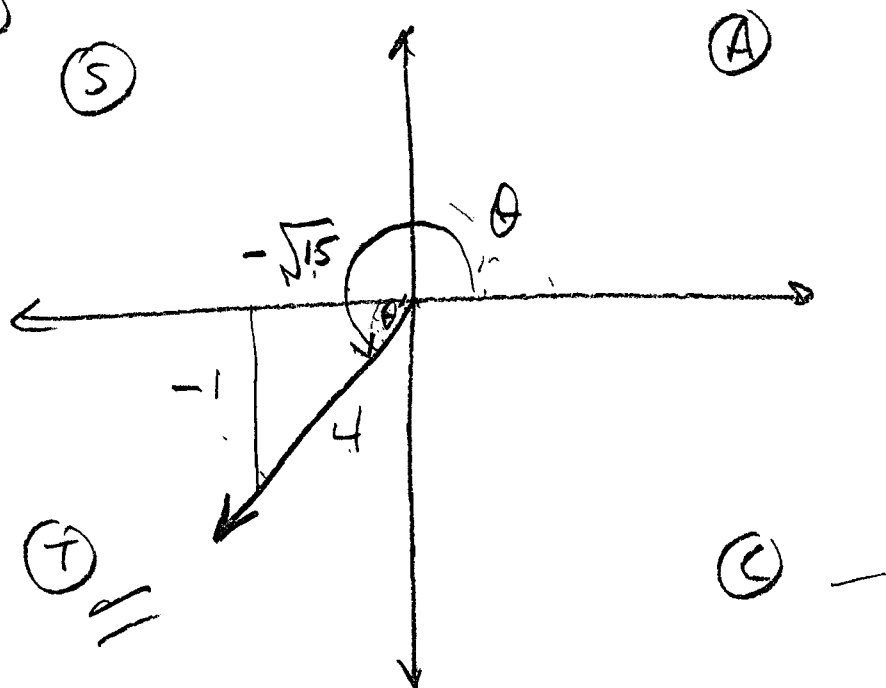
$\cos \theta = \frac{3}{\sqrt{73}} = \frac{3\sqrt{73}}{73}$

$\tan \theta = \frac{-8}{3}$

(C)  $\theta' = 69.4$   
 $\theta = 290.6^\circ$

EX 2-4D  
pg 58

$$\sin \theta = -\frac{1}{4}, \quad \tan \theta > 0$$



$$\cos \theta = -\frac{\sqrt{15}}{4}$$


---


$$\tan \theta = \frac{\sqrt{15}}{15}$$

$$\sin^{-1}\left(\frac{1}{4}\right) = 14.5^\circ$$

$$+180^\circ$$

$$194.5^\circ = \theta$$