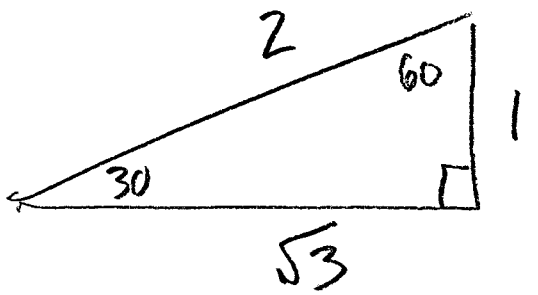
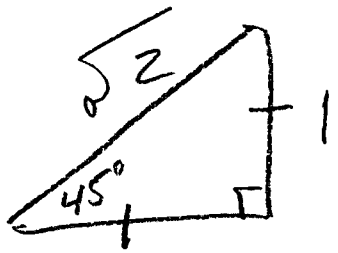
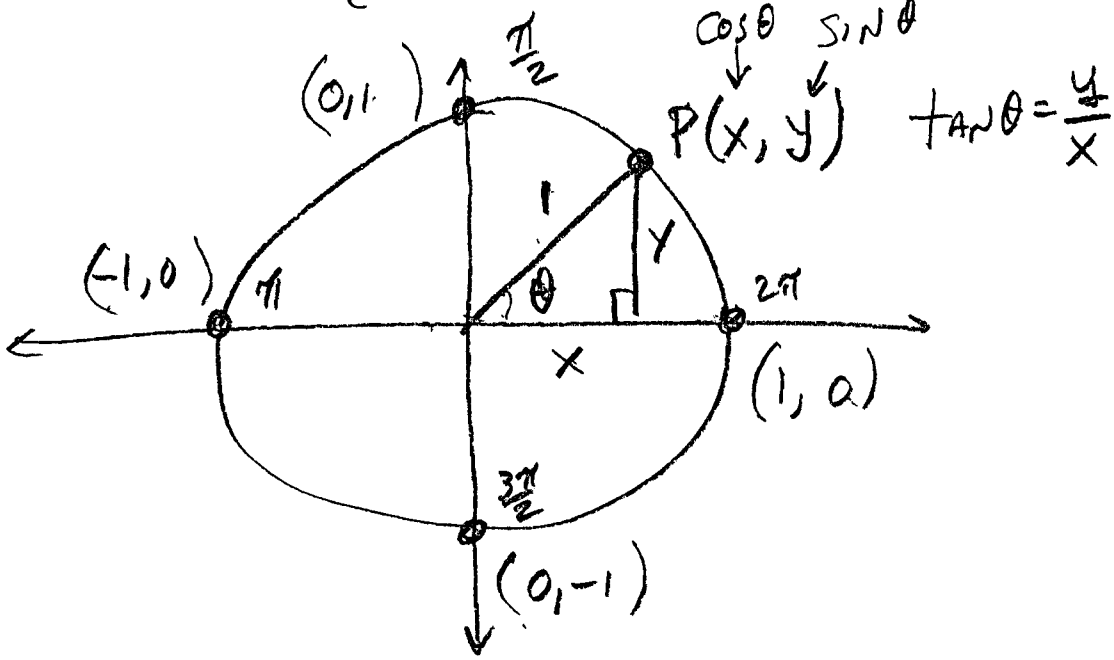
Mth 113 TUESDAY 1-15-13 CLASS NOTES



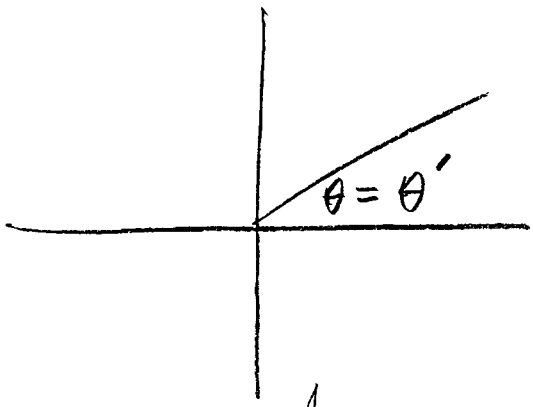


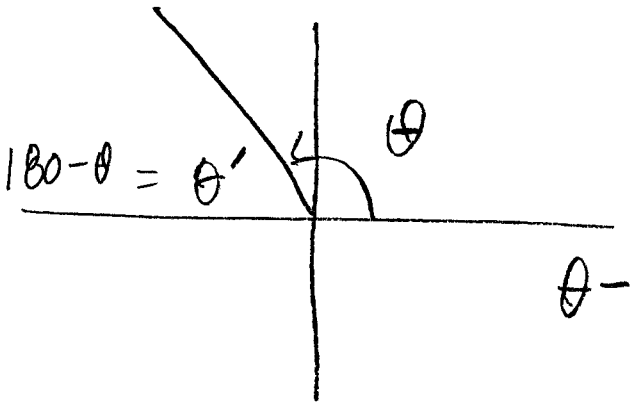
QUADRANTAL ANGLES

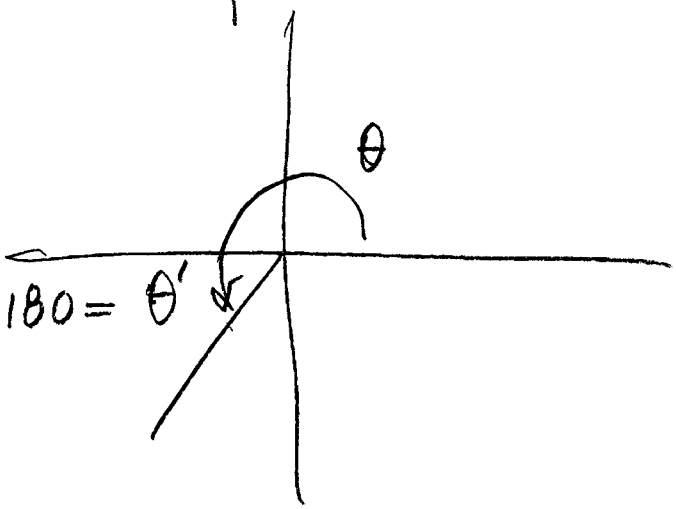


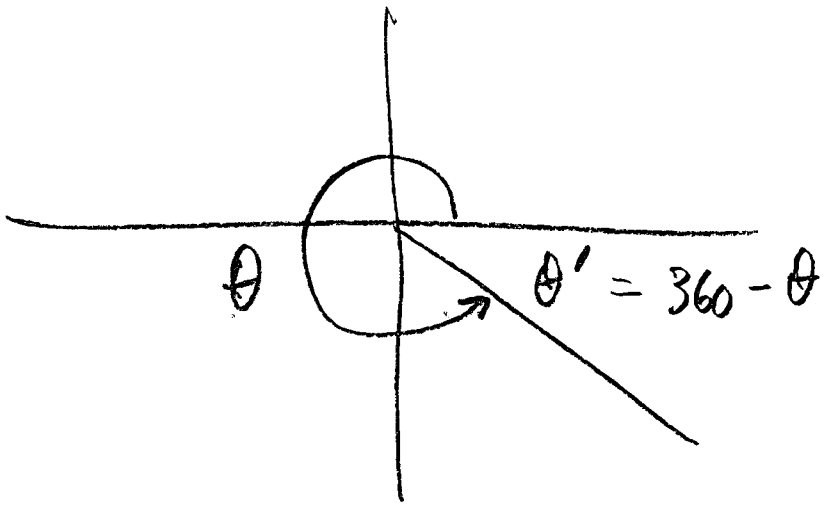
EXACT VALUES

S	A
T	C





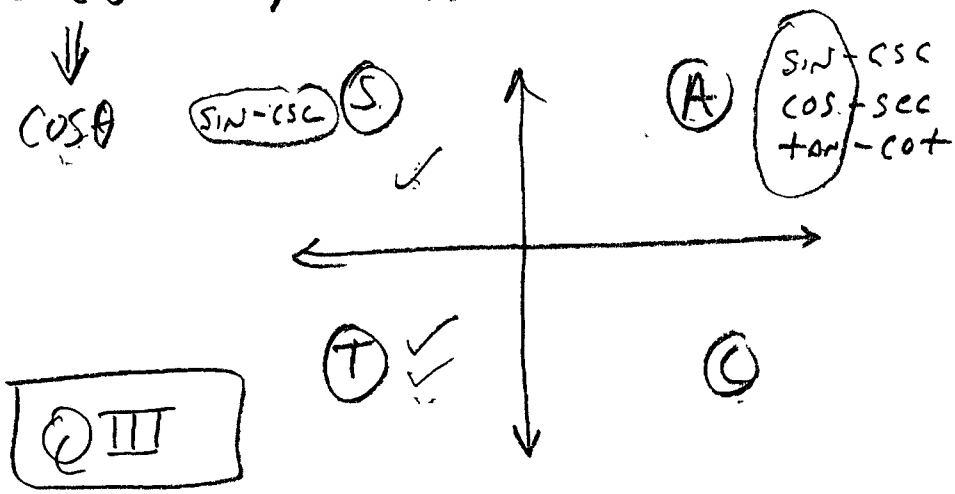




Given the sign of 2 trig. functions, state Quadrant the terminal side of Angle is in:

(2) $\sec\theta < 0$, $\tan\theta > 0$

$\sec\theta$ ⇓ $\cos\theta$



Q III

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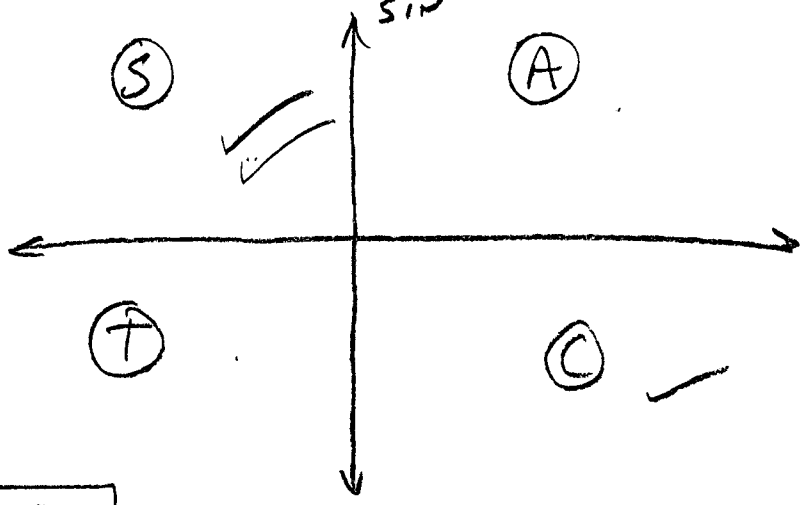
(4) $\cot\theta < 0$, $\csc\theta > 0$

$\cot\theta$ ⇓ TAN

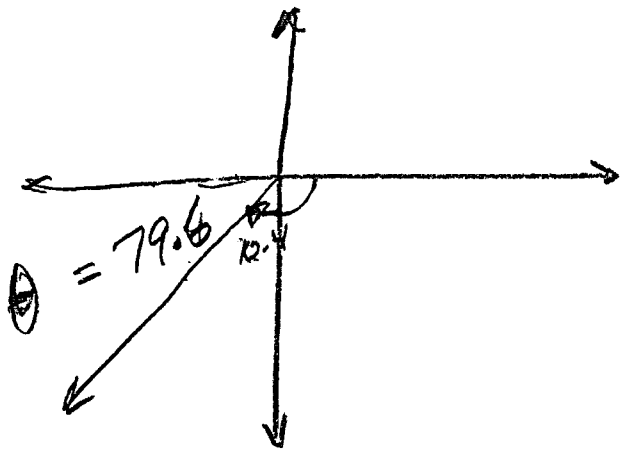
$\csc\theta$ ⇓ SIN



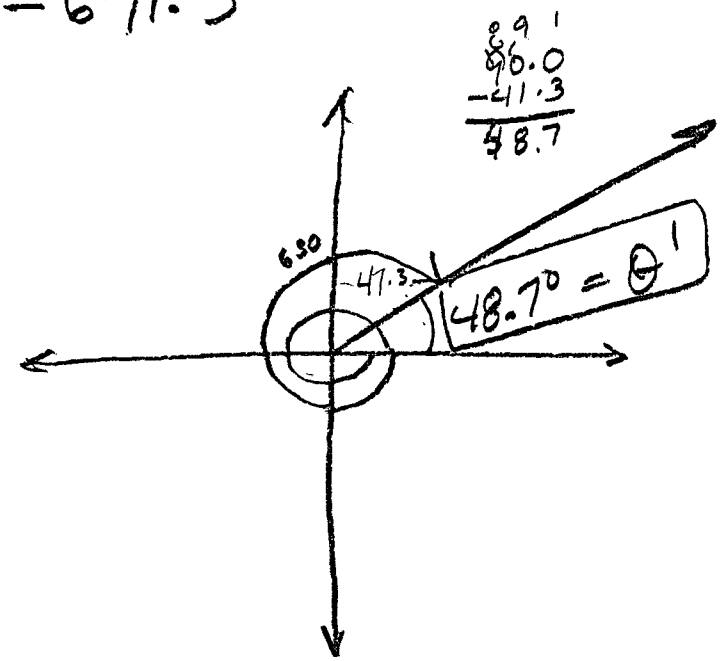
Q II

Ref. Angle

(18) $-100.4° = \theta$ $\theta' = ?$



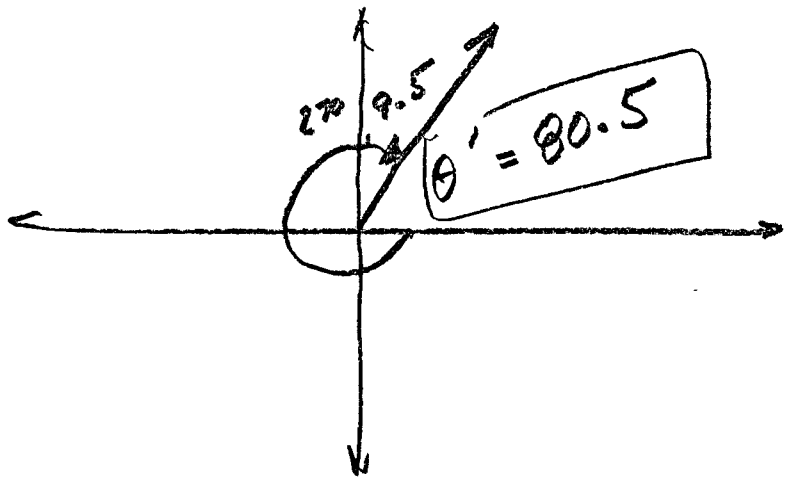
(20) -671.3



$$\begin{array}{r} 90.0 \\ -41.3 \\ \hline 48.7 \end{array}$$

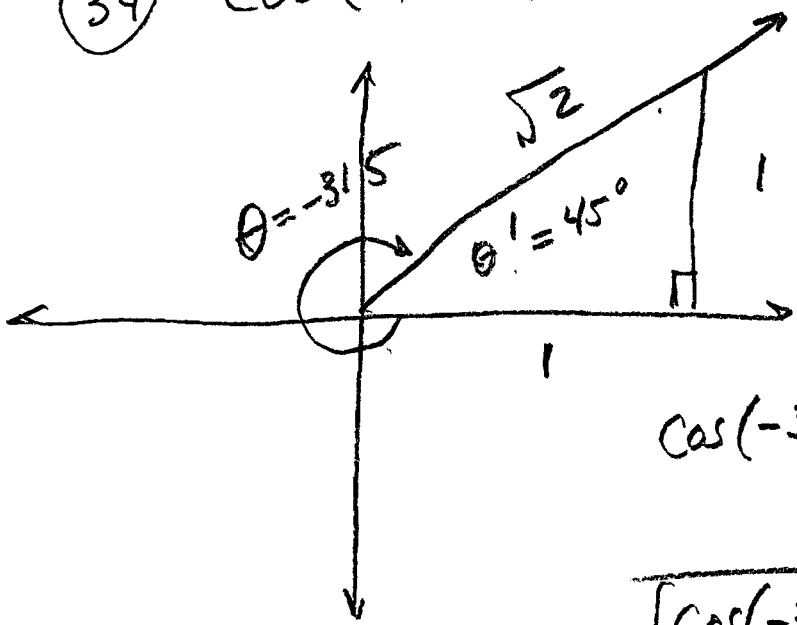
Ref. Angle?

(23) $-279.5 = \theta$



Exact

(34) $\cos(-315)$

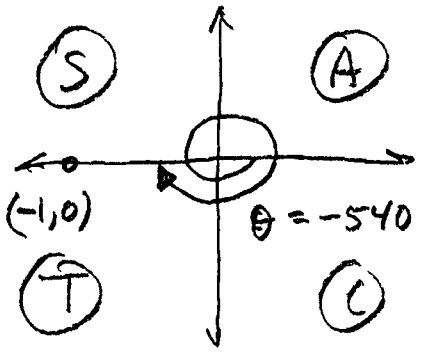


$\cos(-315) = +\cos(45)$

$= \frac{1}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}}$

$\boxed{\cos(-315) = \frac{\sqrt{2}}{2}}$

(40) $\tan(-540)$



$\tan(-540) = \frac{0}{-1}$

$\boxed{\tan(-540) = 0}$