

4.4 Day 1 p. 318 # 11-14, 30, 33, 39, 42, 45, 48, 51, 54

11) $\sin \theta < 0$ & $\cos \theta < 0$ III

I, IV I, II

S	A
T	C

12) $\sin \theta > 0$ & $\cos \theta > 0$ I

I, II I, IV

13) $\sin \theta > 0$ & $\tan \theta < 0$ II

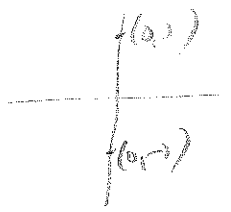
I, II I, IV

14) $\sec \theta > 0$ & $\cot \theta < 0$ IV

I, IV I, IV

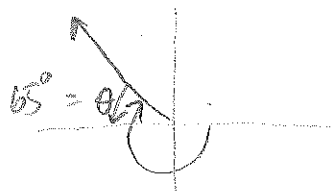
30) $\csc \frac{3\pi}{2}$

$\sin \frac{3\pi}{2} = -1$ $\csc \frac{3\pi}{2} = -1$

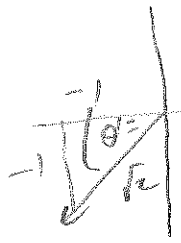


33) $\sin \frac{\pi}{2} = 1$

39) $\theta = -245^\circ$



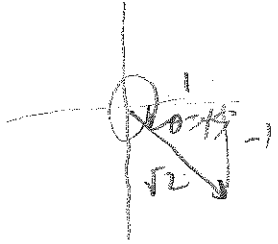
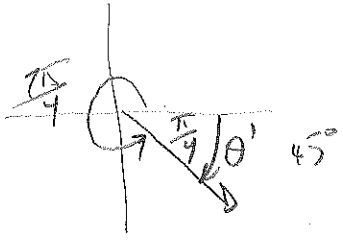
45) 225°



$\sin(225^\circ) = -\frac{\sqrt{2}}{2}$
 $\cos 225^\circ = -\frac{\sqrt{2}}{2}$
 $\tan 225^\circ = 1$

42) $\theta = \frac{7\pi}{4}$ $\frac{45 \cdot 180}{\pi} = 315$

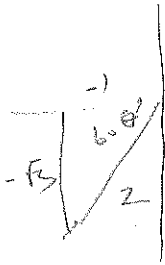
48) -405°



$\frac{45}{-360}$
 $\frac{45}{45}$

$\sin(-405^\circ) = -\frac{\sqrt{2}}{2}$
 $\cos(-405^\circ) = \frac{\sqrt{2}}{2}$
 $\tan(-405^\circ) = -1$

$$(51) \frac{4\pi}{3} \stackrel{60}{\frac{180}{\pi}} = 240^\circ$$



$$\frac{240}{-180} = \frac{4}{3}$$

$$\sin \frac{4\pi}{3} = -\frac{\sqrt{3}}{2}$$

$$\cos \frac{4\pi}{3} = -\frac{1}{2}$$

$$\tan \frac{4\pi}{3} = \sqrt{3}$$

$$(54) -\frac{\pi}{2} = -90^\circ$$



$$\sin -\frac{\pi}{2} = -1$$

$$\cos -\frac{\pi}{2} = 0$$

$$\tan -\frac{\pi}{2} = \frac{\sin}{\cos} = \frac{-1}{0} \text{ undefined}$$