November 3, 2010

Note Title 11/3/2010

§6.7 #33

$$\tan\left(-\frac{11\pi}{6}\right) = \frac{\sin\left(-\frac{11\pi}{6}\right)}{\cos\left(-\frac{11\pi}{6}\right)}$$

$$= \frac{-\sin\left(\frac{11\pi}{6}\right)}{\cos\left(\frac{11\pi}{6}\right)}$$

$$\frac{-\left(-\frac{1}{2}\right)}{\frac{\sqrt{3}}{2}} = \frac{1}{2}\cdot\frac{2}{\sqrt{3}}$$

$$= \frac{1}{\sqrt{3}} = \frac{\sqrt{3}}{3}$$

$\boxed{\sin(-x) = -\sin x}$

Sine is odd function

Cosine is even function

$\cos(-x) = \cos x$.

#49 $\sin\theta = -1, \quad 0 \le \theta \le 4\pi$

the value of sine function is the y- coordinate.

Bottom half plane.

$\theta = \boxed{\frac{3\pi}{2}}$ from chart.

$\frac{3\pi}{2} + 2\pi = \boxed{\frac{7\pi}{2}}$