

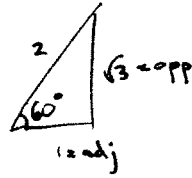
122 HW #10

13.1 # 36, 46, 47, 60, 64

36

$$\cot \frac{\pi}{3} = \cot 60^\circ$$

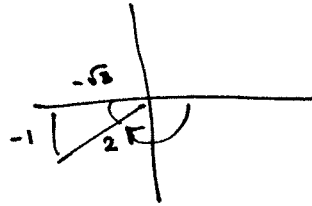
$$= \frac{\text{adj}}{\text{opp}} = \frac{1}{\sqrt{3}}$$



46

$$\tan -\frac{5\pi}{6} = \tan(-150^\circ)$$

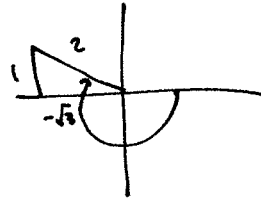
$$= \frac{\text{opp}}{\text{adj}} = \frac{-1}{-\sqrt{3}} = \frac{1}{\sqrt{3}}$$



47

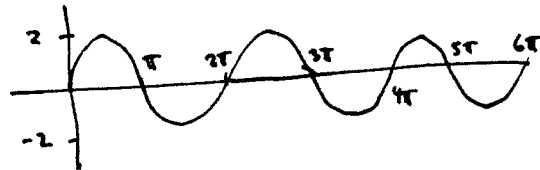
$$\sin\left(-\frac{7\pi}{6}\right) = \sin(-210^\circ)$$

$$= \frac{\text{opp}}{\text{hyp}} = \frac{1}{2}$$



60

$$y = 2 \sin x \quad \text{amp} = 2$$

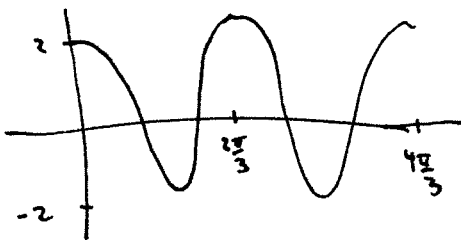


64

$$y = 2 \cos\left(3x - \frac{\pi}{4}\right) + 1$$

$$\text{amp} = 2$$

$$\text{period} = \frac{2\pi}{3}$$



shift up 1
shift right $\frac{\pi}{4}$

