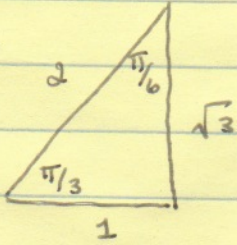


HW 40 Solutions

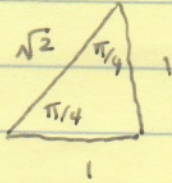
#2.)



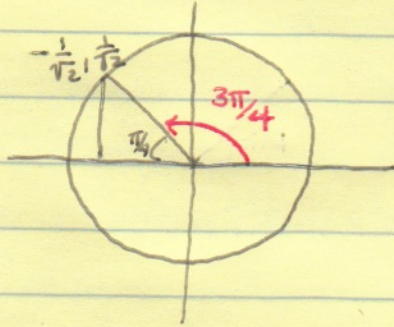
$$\sin(\pi/3) = \frac{\sqrt{3}}{2} \quad \text{so ...}$$

$$\boxed{\sin^{-1}\left(\frac{\sqrt{3}}{2}\right) = \pi/3}$$

#8.)



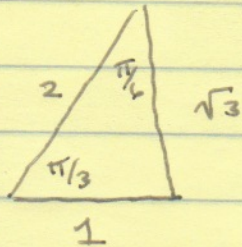
$$\cos(\pi/4) = \frac{1}{\sqrt{2}} \quad \text{but... it should be negative!}$$



so ...

$$\boxed{\cos^{-1}\left(-\frac{1}{\sqrt{2}}\right) = \frac{3\pi}{4}}$$

#13.)



$$\tan(\pi/6) = \frac{1}{\sqrt{3}}$$

so ...

$$\boxed{\tan^{-1}\left(\frac{1}{\sqrt{3}}\right) = \pi/6}$$