

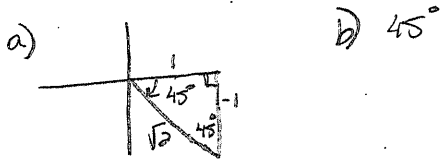
FST Trig 2-5 Extra Practice

Evaluate Exactly by completing the following:

- a. Sketch a reference triangle
- b. Find the reference angle
- c. Find the exact value (No decimals)

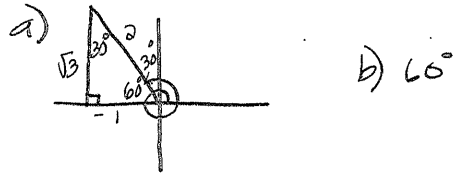
SOH CAH TOA

$$1) \sin\left(\frac{-\pi}{4}\right) = \frac{-180}{4} = -45^\circ$$



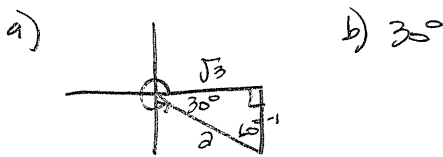
$$c) \sin -45^\circ = \frac{-1 \cdot \sqrt{2}}{\sqrt{2} \cdot \sqrt{2}} = \boxed{\frac{-\sqrt{2}}{2}}$$

$$2) \cos\left(\frac{8\pi}{3}\right) = \frac{8(180)}{3} = \frac{480}{3} = 120^\circ$$



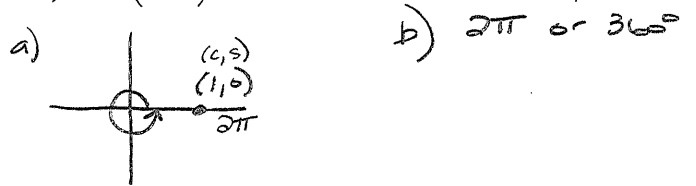
$$c) \cos 120^\circ = \boxed{\frac{-1}{2}}$$

$$3) \tan\left(\frac{11\pi}{6}\right) = \frac{11(180)}{6} = 330^\circ$$



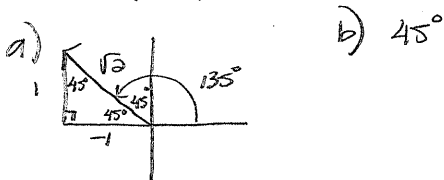
$$c) \tan 330^\circ = \frac{-1 \cdot \sqrt{3}}{\sqrt{3} \cdot \sqrt{3}} = \boxed{\frac{-\sqrt{3}}{3}}$$

$$4) \sec(2\pi) = 360^\circ$$



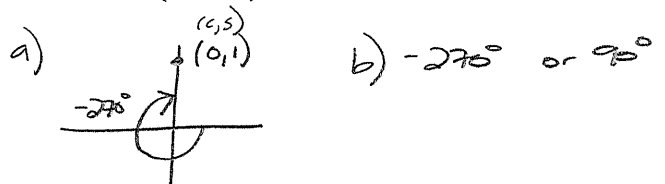
$$c) \frac{1}{\cos 2\pi} = \frac{1}{1} = \boxed{1}$$

$$5) \cot\left(\frac{3\pi}{4}\right) = \frac{3(180)}{4} = 135^\circ$$



$$c) \cot 135^\circ = \frac{1}{\tan 135^\circ} = \frac{1}{-1} = \boxed{-1}$$

$$6) \csc\left(\frac{-3\pi}{2}\right) = \frac{-3(180)}{2} = -270^\circ$$



$$c) \csc -270^\circ = \frac{1}{\sin -270^\circ} = \frac{1}{1} = \boxed{1}$$