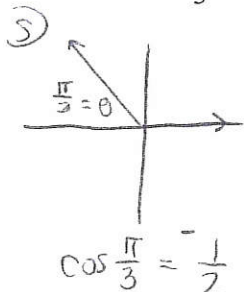
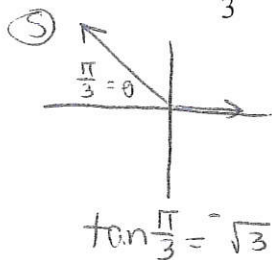


Find the exact value of each trigonometric function.

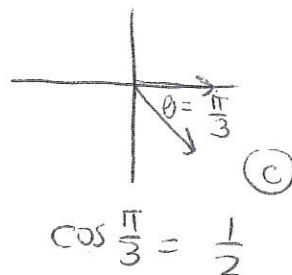
1.  $\cos \frac{2\pi}{3}$



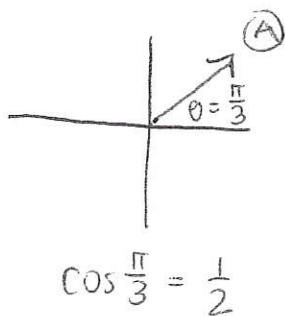
2.  $\tan \frac{2\pi}{3}$



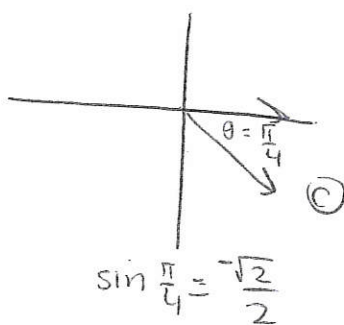
3.  $\cos \frac{5\pi}{3}$



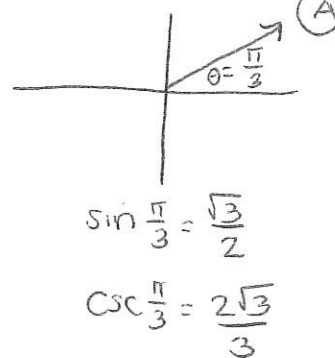
4.  $\cos \left( \frac{-5\pi}{3} \right)$



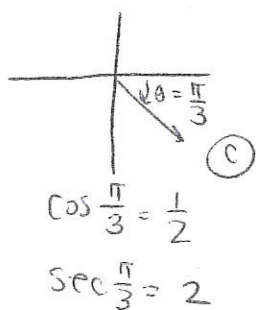
5.  $\sin \frac{7\pi}{4}$



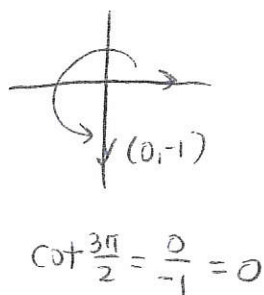
6.  $\csc \frac{7\pi}{3} \rightarrow \frac{420^\circ}{360^\circ} = 60^\circ$



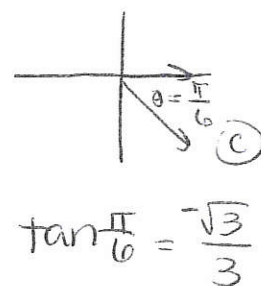
7.  $\sec \left( \frac{-\pi}{3} \right)$



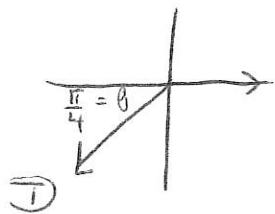
8.  $\cot \frac{3\pi}{2}$



9.  $\tan \frac{11\pi}{6}$



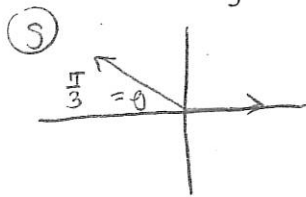
$$10. \sin \frac{5\pi}{4}$$



(T)

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

$$11. \cot \frac{2\pi}{3}$$

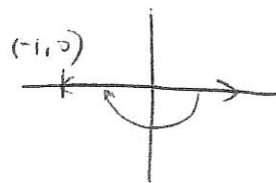


(S)

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

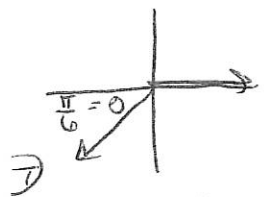
$$\cot \frac{\pi}{3} = \frac{1}{\sqrt{3}}$$

$$12. \csc(-\pi)$$



$$\csc(-\pi) = \frac{1}{0} = \text{undefined}$$

$$13. \sec \frac{7\pi}{6}$$

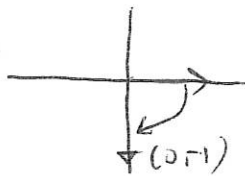


(T)

$$\cos \frac{\pi}{6} = \frac{\sqrt{3}}{2}$$

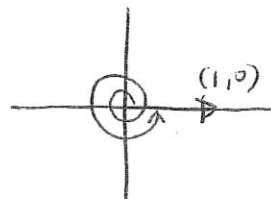
$$\sec \frac{\pi}{6} = \frac{2}{\sqrt{3}}$$

$$14. \cos\left(-\frac{\pi}{2}\right)$$



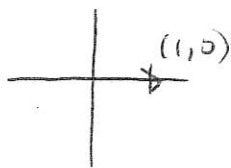
$$\cos\left(-\frac{\pi}{2}\right) = 0$$

$$15. \tan 4\pi$$



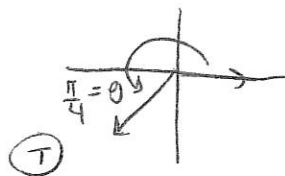
$$\tan 4\pi = \frac{0}{1} = 0$$

$$16. \cos 0$$



$$\cos 0 = 1$$

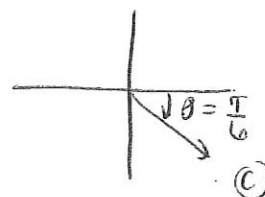
$$17. \tan \frac{5\pi}{4}$$



(T)

$$\tan \frac{\pi}{4} = 1$$

$$18. \sin\left(-\frac{\pi}{6}\right)$$



$$\sin \frac{\pi}{6} = \frac{1}{2}$$