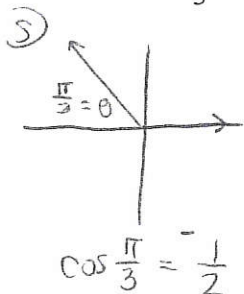
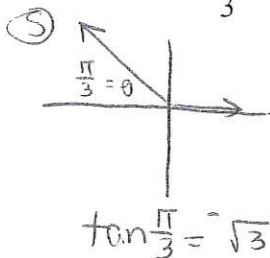


Find the exact value of each trigonometric function.

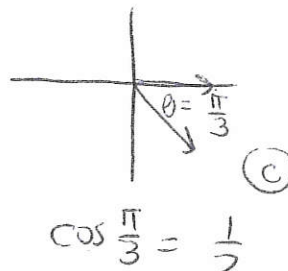
1.  $\cos \frac{2\pi}{3}$



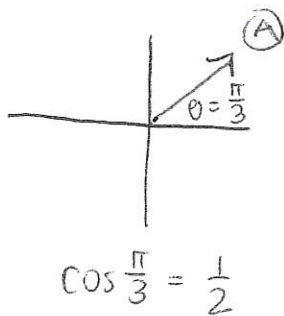
2.  $\tan \frac{2\pi}{3}$



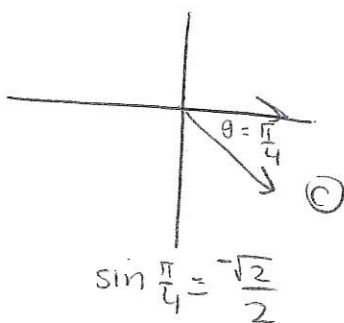
3.  $\cos \frac{5\pi}{3}$



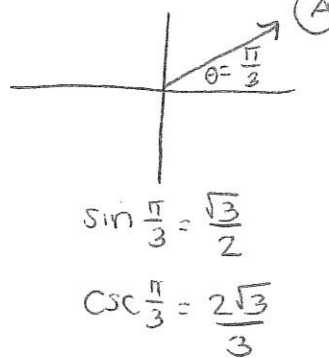
4.  $\cos \left( \frac{-5\pi}{3} \right)$



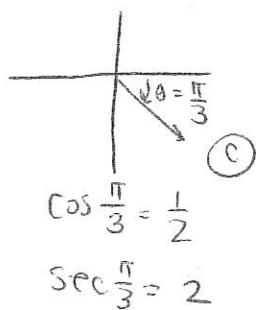
5.  $\sin \frac{7\pi}{4}$



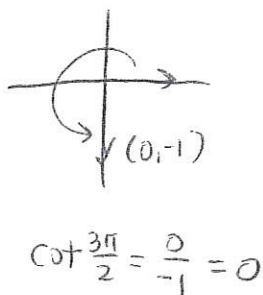
6.  $\csc \frac{7\pi}{3} \rightarrow \frac{420^\circ}{-360^\circ} = \frac{60^\circ}{60^\circ}$



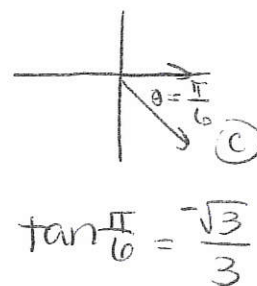
7.  $\sec \left( \frac{-\pi}{3} \right)$



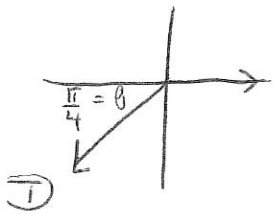
8.  $\cot \frac{3\pi}{2}$



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

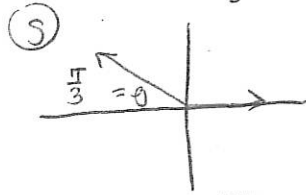


$$10. \sin \frac{5\pi}{4}$$



$$\sin \frac{5\pi}{4} = -\frac{\sqrt{2}}{2}$$

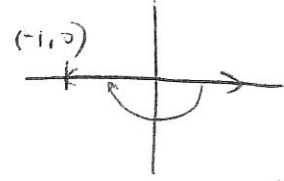
$$11. \cot \frac{2\pi}{3}$$



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

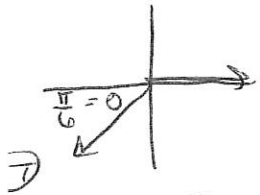
$$\cot \frac{\pi}{3} = \frac{1}{\sqrt{3}} = \frac{\sqrt{3}}{3}$$

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



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

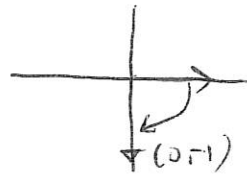
$$13. \sec \frac{7\pi}{6}$$



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

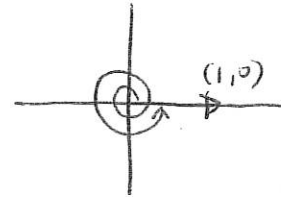
$$\sec \frac{\pi}{6} = \frac{2}{\sqrt{3}} = \frac{2\sqrt{3}}{3}$$

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



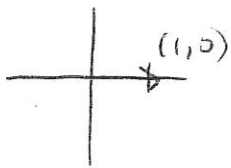
$$\cos\left(\frac{-\pi}{2}\right) = 0$$

$$15. \tan 4\pi$$



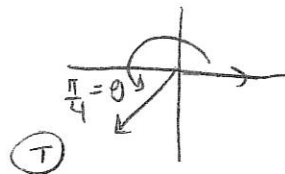
$$\tan 4\pi = \frac{0}{1} = 0$$

$$16. \cos 0$$



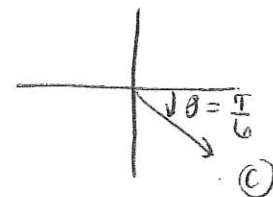
$$\cos 0 = 1$$

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



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

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



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