

Ditto 5.1 #1-20

1. -1 2. 0 3. 0 4. 0 5. 0
 6. 0 7. 0 8. 1 9. 0 10. 0

$$11. \sin t = \frac{\sqrt{5}}{5} \quad \cos t = -\frac{2\sqrt{5}}{5} \quad \tan t = -\frac{1}{2}$$

$$12. \sin t = -\frac{3\sqrt{10}}{10} \quad \cos t = \frac{\sqrt{10}}{10} \quad \tan t = -3$$

$$13. \sin t = -\frac{4}{5} \quad \cos t = -\frac{3}{5} \quad \tan t = \frac{4}{3}$$

$$14. \sin t = -0.8 \quad \cos t = 0.6 \quad \tan t = -4/3$$

$$15. \sin t = \frac{7\sqrt{53}}{53} \quad \cos t = \frac{2\sqrt{53}}{53} \quad \tan t = \frac{7}{2}$$

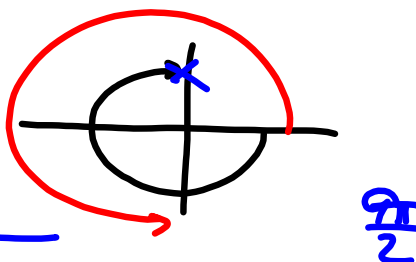
$$16. \sin t = \frac{2\sqrt{13}}{13} \quad \cos t = -\frac{3\sqrt{13}}{13} \quad \tan t = -\frac{2}{3}$$

$$17. \sin t = -\frac{6\sqrt{61}}{61} \quad \cos t = -\frac{5\sqrt{61}}{61} \quad \tan t = \frac{6}{5}$$

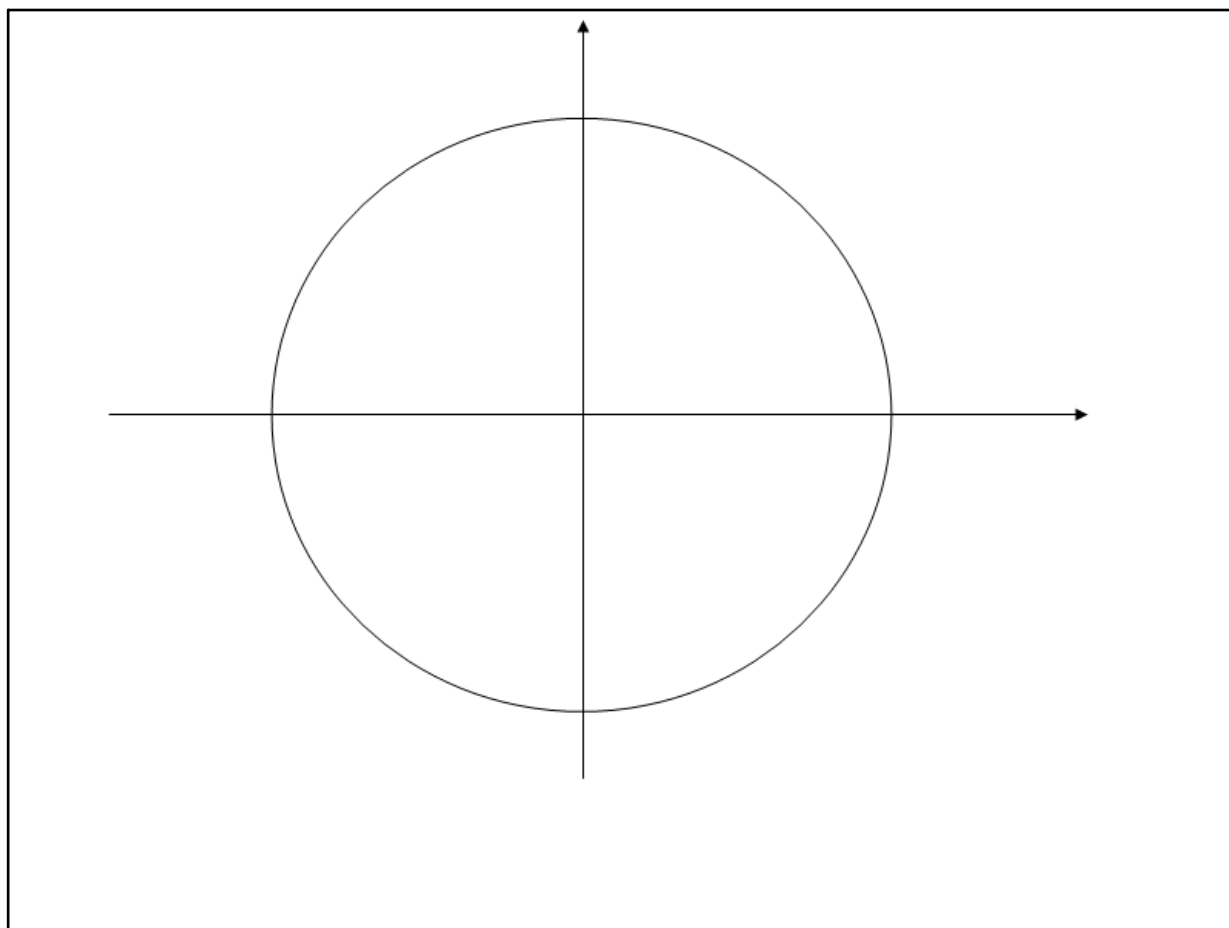
$$18. \sin t = -\frac{3}{5} \quad \cos t = \frac{4}{5} \quad \tan t = -\frac{3}{4}$$

$$19. \sin t = -\frac{10\sqrt{103}}{103} \quad \cos t = \frac{\sqrt{309}}{103} \quad \tan t = -\frac{10\sqrt{3}}{3}$$

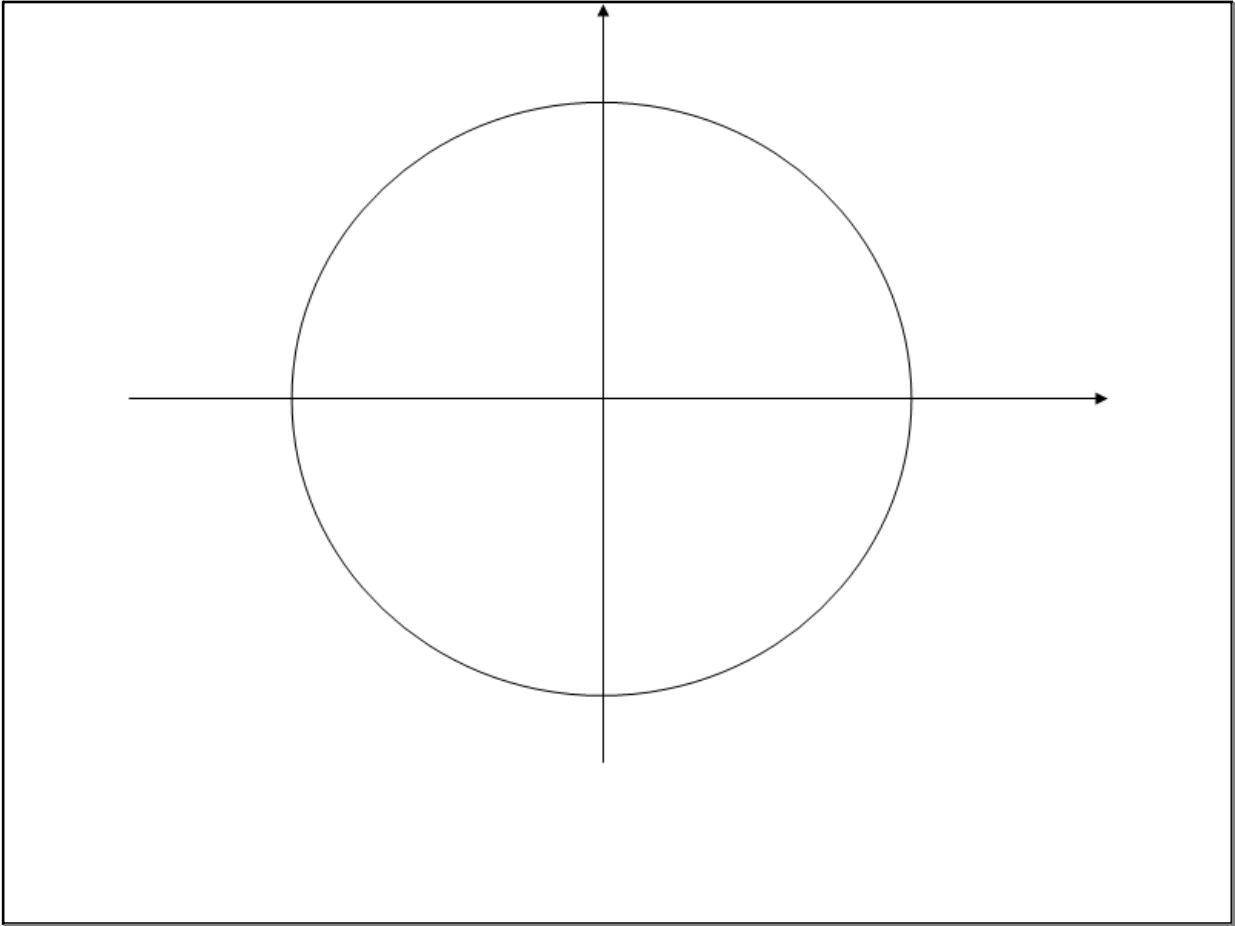
$$20. \sin t = \frac{2\sqrt{\pi^2+4}}{\pi^2+4} \quad \cos t = -\frac{\pi\sqrt{\pi^2+4}}{\pi^2+4} \quad \tan t = -\frac{2}{\pi}$$



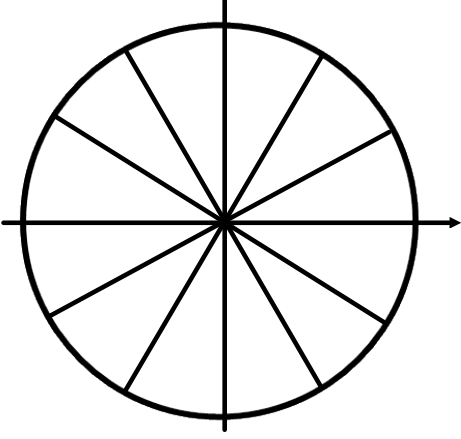
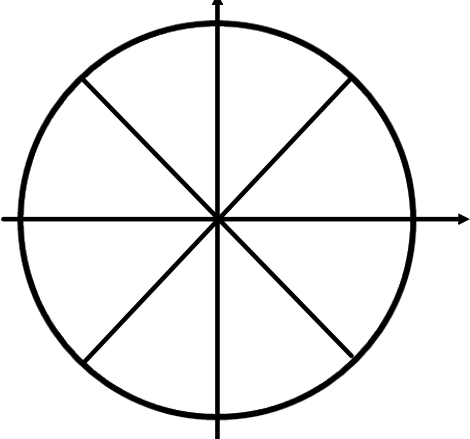
Dec 4-2:01 PM



Dec 9-9:03 AM



Dec 3-8:12 AM



You must have this table memorized!

	0	$\frac{\pi}{6}$	$\frac{\pi}{4}$	$\frac{\pi}{3}$	$\frac{\pi}{2}$
sin					
cos					
tan					

Dec 3-8:17 AM

Determine the EXACT value $\rightarrow$ No Decimals, No Calculators

1st - Find the reference angle (Only be $\pi/6, \pi/3, \pi/4$)

2nd - Use your circle to find the quadrant

3rd - Write the ratio in simplified radical form with the correct + or - sign

1. $\sin \frac{11\pi}{6} : -\sin \frac{\pi}{6} : -\frac{1}{2}$
 $\alpha : \pi/6$ QIV

2. $\cos \frac{4\pi}{3} : -\cos \frac{\pi}{3} : -\frac{1}{2}$
 $\alpha : \pi/3$ QIII

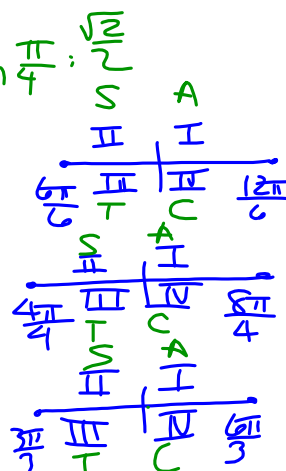
3. $\sin \left(-\frac{7\pi}{6}\right) : \sin \frac{\pi}{6} : \frac{1}{2}$
 $\alpha : \pi/6$ QII

4. $\tan \frac{5\pi}{6} : -\tan \frac{\pi}{6} : -\frac{\sqrt{3}}{3}$
 $\alpha : \pi/6$ QII

5. $\sin \frac{3\pi}{4} : \sin \frac{\pi}{4} : \frac{\sqrt{2}}{2}$
 $\alpha : \pi/4$ QII

6. $\cos \left(-\frac{2\pi}{3}\right)$
 $\alpha : \pi/3$

7. $\tan \left(-\frac{5\pi}{4}\right)$
 $\alpha : \pi/4$



6. QIII $-\cos \frac{\pi}{3} : -\frac{1}{2}$

7. QII $-\tan \frac{\pi}{4} : -1$

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Substitute the values & simplify $\rightarrow$ No decimals, No calculators

1. $\cos \frac{\pi}{2} \cos \frac{\pi}{4} - \sin \frac{\pi}{2} \sin \frac{\pi}{4}$

$\therefore (0) \left(\frac{\sqrt{2}}{2}\right) - (1) \left(\frac{\sqrt{2}}{2}\right)$
 $\therefore -\frac{\sqrt{2}}{2}$

2. $\sin \frac{4\pi}{3} \cos \frac{5\pi}{6} - \cos \frac{4\pi}{3} \sin \frac{5\pi}{6}$

$\frac{4\pi}{3} \rightarrow Q3$

$\therefore \left(-\sin \frac{\pi}{3}\right) \left(-\cos \frac{\pi}{6}\right) - \left(-\cos \frac{\pi}{3}\right) \left(\sin \frac{\pi}{6}\right)$
 $\therefore \left(-\frac{\sqrt{3}}{2}\right) \left(-\frac{\sqrt{3}}{2}\right) - \left(-\frac{1}{2}\right) \left(\frac{1}{2}\right)$

$\therefore \frac{3}{4} - \left(-\frac{1}{4}\right) : \frac{3}{4} + \frac{1}{4} : 1$

Dec 3-8:19 AM



Homework:

WS 5.1: 21 - 33

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