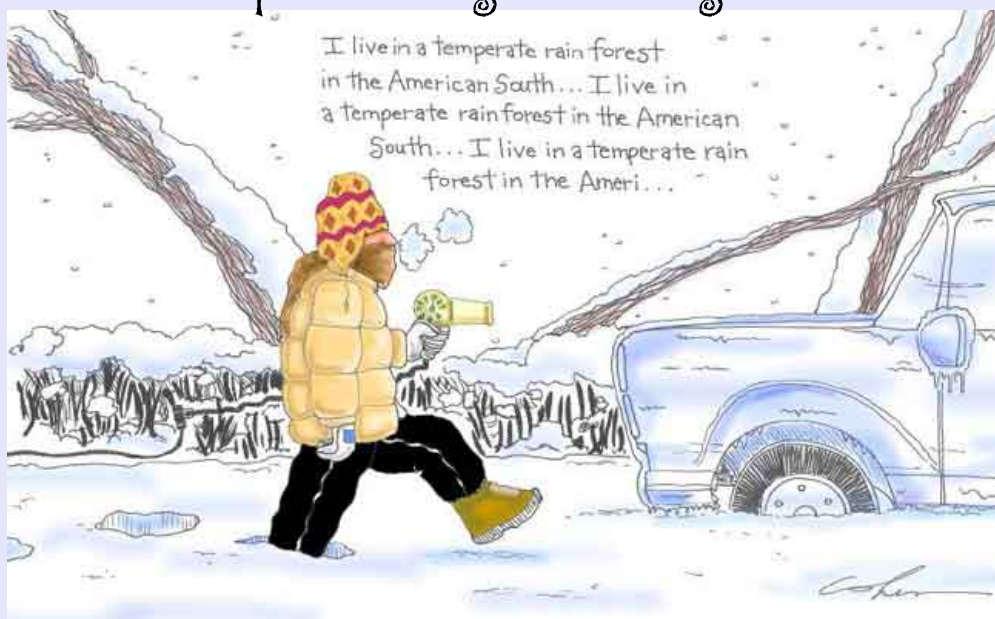


Special Right Triangles



Dec 3-8:15 AM

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

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

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

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

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

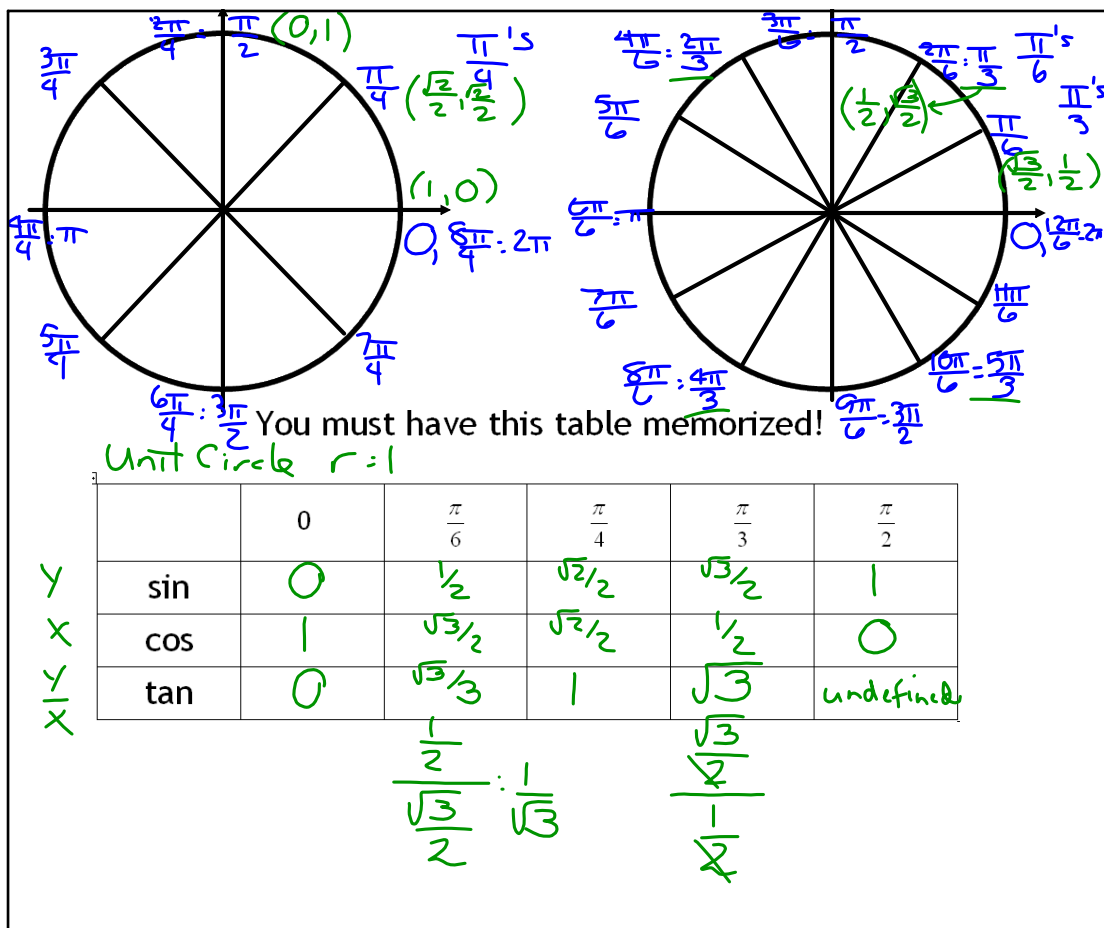
17. $\sin t = -\frac{6\sqrt{61}}{61}$ $\cos t = -\frac{5\sqrt{61}}{61}$ $\tan t = \frac{6}{5}$

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

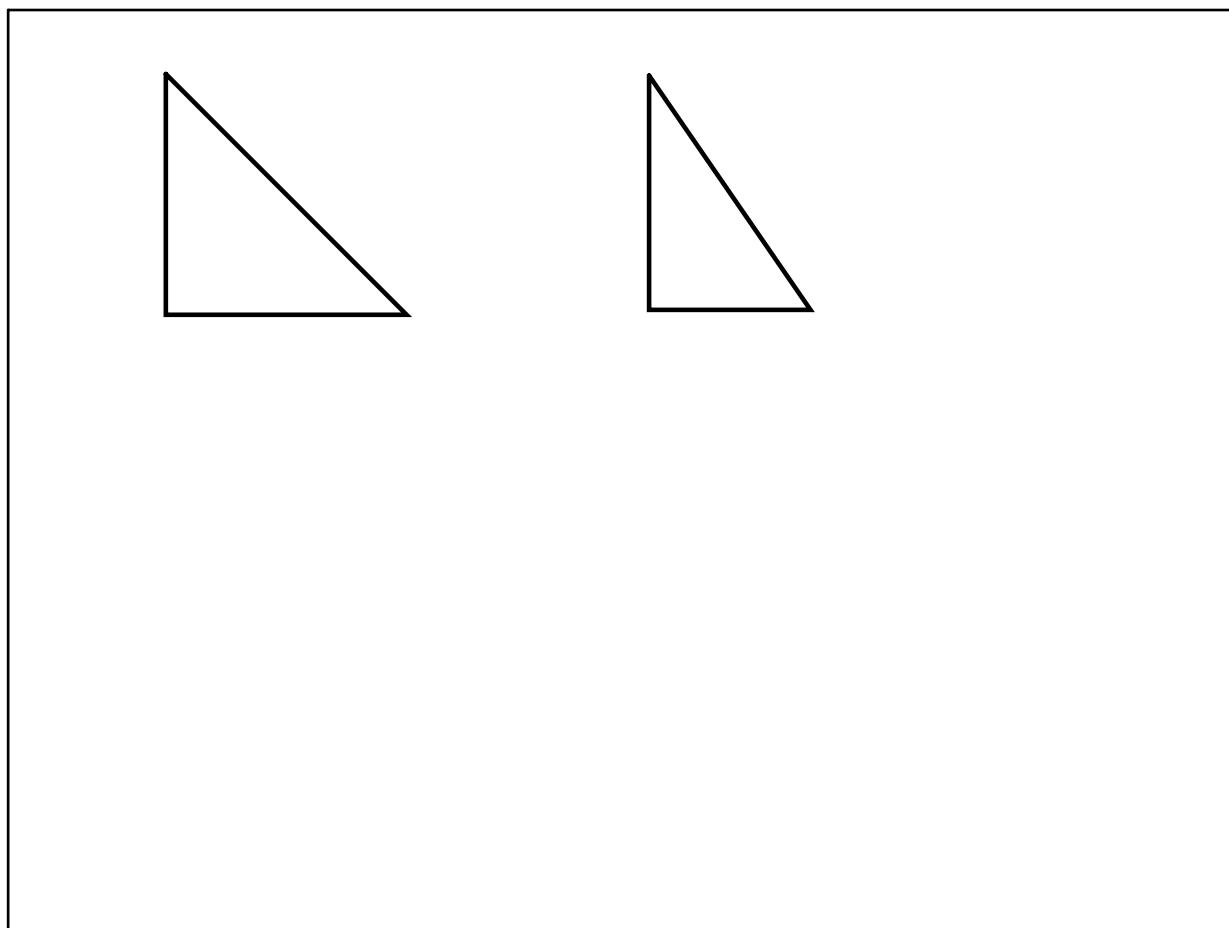
19. $\sin t = -\frac{10\sqrt{103}}{103}$ $\cos t = \frac{\sqrt{309}}{103}$ $\tan t = -\frac{10\sqrt{3}}{3}$

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

Dec 4-2:01 PM



Dec 3-8:17 AM



Dec 19-12:32 PM

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

1st - Find the reference angle α Always be either $\frac{\pi}{6}, \frac{\pi}{4}, \frac{\pi}{3}$

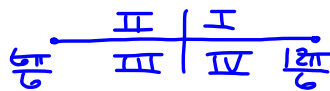
2nd - Use your circle to find the quadrant

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

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

5. $\sin \frac{3\pi}{4}$

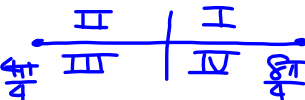
$\alpha : \frac{\pi}{4}$



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

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

$\alpha : \frac{\pi}{3}$

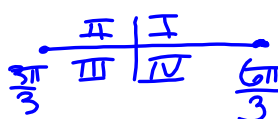


3. $\sin \left(-\frac{7\pi}{6} \right) : +\sin \frac{\pi}{6} : \frac{1}{2}$

$\alpha : \frac{\pi}{6}$ QII

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

$\alpha : \frac{\pi}{4}$



4. $\tan \frac{5\pi}{6}$
 $\alpha : \frac{\pi}{6}$

Dec 3-8:18 AM

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

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

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

Dec 3-8:19 AM



Homework:

WS 5.1: 21 - 33

Dec 3-8:20 AM