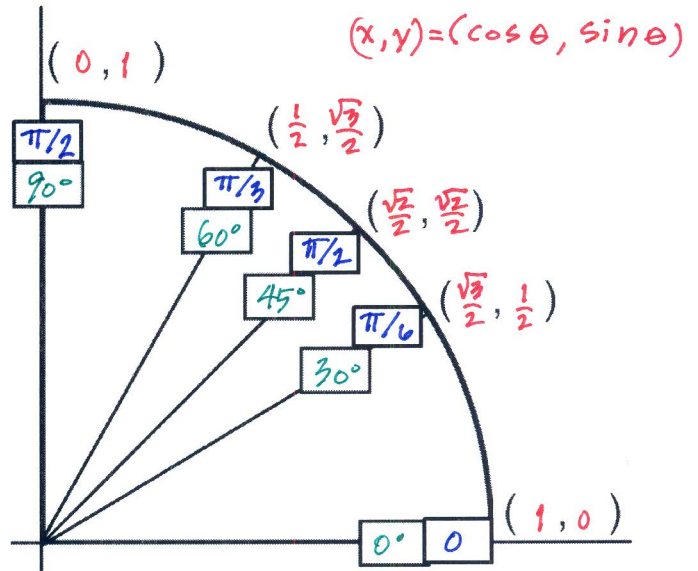


I. Complete quadrant I of the unit circle ...  
... using NO notes, resources, or calculator!!

- label degrees
- label radians
- label ordered pairs



II. Find each exact trig value. No Calculator!!

- |   |   |  |  |
|---|---|--|--|
| 1. $\sin 30^\circ = \boxed{\frac{1}{2}}$                            | 2. $\cos 45^\circ = \boxed{\frac{\sqrt{2}}{2}}$   | 3. $\tan \frac{\pi}{3} = \boxed{\sqrt{3}}$<br>$\frac{\sqrt{3}}{2} \cdot \frac{2}{1}$                             | 4. $\cos \frac{\pi}{6} = \boxed{\frac{\sqrt{3}}{2}}$   |
| 5. $\sin 60^\circ = \boxed{\frac{\sqrt{3}}{2}}$                     | 6. $\tan \frac{\pi}{6} = \boxed{\frac{\sqrt{3}}{3}}$<br>$\frac{1}{2} \cdot \frac{2}{\sqrt{3}} = \frac{1}{\sqrt{3}}$ | 7. $\cot \frac{\pi}{4} = \boxed{1}$<br>$\frac{\sqrt{2}}{2} \cdot \frac{2}{\sqrt{2}}$                             | 8. $\sec 30^\circ = \boxed{\frac{2\sqrt{3}}{3}}$<br>$\frac{1}{\frac{\sqrt{3}}{2}} = 1 \cdot \frac{2}{\sqrt{3}}$                  |
| 9. $\tan \frac{\pi}{2} = \boxed{\text{undefined}}$<br>$\frac{1}{0}$ | 10. $\sin 90^\circ = \boxed{1}$   | 11. $\csc 60^\circ = \boxed{\frac{2\sqrt{3}}{3}}$<br>$\frac{1}{\frac{\sqrt{3}}{2}} = 1 \cdot \frac{2}{\sqrt{3}}$ | 12. $\sec \frac{\pi}{4} = \boxed{\sqrt{2}}$<br>$\frac{1}{\frac{\sqrt{2}}{2}} = 1 \cdot \frac{2}{\sqrt{2}} = \frac{2\sqrt{2}}{2}$ |

III. Evaluate. No calculator!!

- |   |  |   |
|---|--|---|
| 13. $\sin 30^\circ - \cos \frac{\pi}{3}$<br>$= \frac{1}{2} - \frac{1}{2} = \boxed{0}$ | 14. $\sin \frac{\pi}{4} \cos \frac{\pi}{4}$<br>$= \frac{\sqrt{2}}{2} \cdot \frac{\sqrt{2}}{2} = \frac{2}{4} = \boxed{\frac{1}{2}}$ | 15. $\tan 45^\circ + \cos 0^\circ$<br>$= 1 + 1 = \boxed{2}$ |
|---|--|---|