INVERSE TRIG FUNCTIONS

I. Find θ (in radians) for each ratio. Do not use a calculator. If more than one θ exists, then state all solutions for $0 \le \theta < 2\pi$.

1. $\sin \theta = \frac{\sqrt{3}}{2}$

2. $\cos \theta = -\frac{\sqrt{3}}{2}$

3. $\cos \theta = -1$

4. $\sin \theta = -\frac{\sqrt{2}}{2}$

5. $\sin \theta = -\frac{1}{2}$

6. $\cos \theta = \frac{\sqrt{2}}{2}$

7. $\sin \theta = 0$

8. $\cos \theta = 1$

9. $\tan \theta = 1$

II. Find θ for each trig value. Use a calculator to find the angle measure in degrees. Round to the nearest degree. Then, convert the angle measure to radians.

1. $\sin \theta = 0.4848$

2. $\cos \theta = 0.8660$

3. $\cos \theta = 0.5878$

4. $\sin \theta = 0.6428$

5. $\cos \theta = 0.4226$

6. $\sin \theta = 0.7071$