Show all your work carefully. No calculator is not allowed on this Quiz.

1. Draw an angle of $-210^\circ$ in standard position. Convert the angle to radians.
   Identify the reference angle in both degrees and radians.

2. Evaluate $\sin\left(\frac{4\pi}{3}\right)$
   Be sure to show a sufficiently detailed picture or explain your result thoroughly.

3. Determine one value of $\theta$ in radians: $\cos(\theta) = \frac{1}{\sqrt{2}}$ with $\theta$ in QIV.
   Be sure to show a sufficiently detailed picture or explain your result thoroughly.