April 2, 2007
Questions Section 9.2

Problem #9
angle 19\pi/6
We want

\[ \frac{19\pi}{6} = - \frac{\pi}{6} = - \frac{1}{2} \]
\[ \cos \frac{19\pi}{6} = - \frac{\pi}{6} = - \frac{\sqrt{3}}{2} \]

We need to find the reference angle; so we need to draw the angle. This is 1.5 times around plus and additional \( \pi/6 \). So the reference angle is \( \pi/6 \) and the terminal side of the angle is in the third quadrant. That means that sine and cosine are both negative.

Problem #15

\[ \sin \alpha = \frac{\sqrt{5}}{3} \]
\[ \cos \alpha = -\frac{2}{3} \]