1. Without finding $\theta$ find the exact value of the other 5 trig functions for the angle $\theta$.
(a) $\sin (\theta)=\frac{3}{5} ; \theta$ in the first quadrant.
(b) $\cos (\theta)=-\frac{1}{\sqrt{2}} ; \theta$ in the second quadrant.
2. Find the exact value (not a decimal approximation) for the following:
(a) $\sec \left(\frac{\pi}{6}\right)$
(b) $\sin \left(-\frac{\pi}{4}\right)$
(c) $\tan \left(-\frac{3 \pi}{4}\right)$
(d) $\cot \left(\frac{11 \pi}{6}\right)$
(e) $\cos \left(\frac{19 \pi}{6}\right)$
(f) $\csc \left(\frac{4 \pi}{3}\right)$
3. Express each of the following in terms of functions of a positive acute angle (same as Problems 6.12).
(a) $\sin \left(\frac{2 \pi}{3}\right)$
(b) $\cos \left(\frac{11 \pi}{6}\right)$
(c) $\tan \left(\frac{16 \pi}{3}\right)$
(d) $\sin \left(\frac{8 \pi}{7}\right)$
4. Use your calculator to find
(a) $\sin \left(\frac{3 \pi}{2}\right)$
(b) $\cot \left(\frac{5 \pi}{8}\right)$
(c) $\sec \left(\frac{11 \pi}{5}\right)$
