Additional Problems Assignment 5

1. Without finding θ find the exact value of the other 5 trig functions for the angle θ.
   (a) $\sin(\theta) = \frac{3}{5}$; θ in the first quadrant.
   (b) $\cos(\theta) = -\frac{1}{\sqrt{2}}$; θ 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) $\sin(\frac{2\pi}{3})$
   (b) $\cos(\frac{11\pi}{6})$
   (c) $\tan(\frac{16\pi}{3})$
   (d) $\sin(\frac{8\pi}{7})$

4. Use your calculator to find
   (a) $\sin(\frac{3\pi}{2})$
   (b) $\cot(\frac{5\pi}{8})$
   (c) $\sec(\frac{11\pi}{5})$