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) $\cos(\theta) = -\frac{1}{\sqrt{2}}; \theta$ 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) $\sin(\frac{2\pi}{3})$
 - (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) $\sec(\frac{11\pi}{5})$