- 1. A ladder is 8m long and is placed aganist a building. The angle between the ladder and the ground is 61°. How high will the top of the ladder reach up the building? How far is the foot of the ladder from the wall of the building?
- 2. 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) $\sin(\frac{8\pi}{7})$
- 3. Use your cacluator to find
 - (a) $\sin(\frac{3\pi}{2})$ (b) $\cot(\frac{5\pi}{8})$
 - (b) $\cot(\frac{\pi}{8})$ (c) $\sec(\frac{11\pi}{5})$