Assignment #9-5

Precalculus Book: Pg. 39

Pg. 394 1, 13, 14, 15, 38, 40, 96, 110, 148

Additional Problems:

- 1. Multiply $(\sqrt{14} + i\sqrt{10})(\sqrt{14} i\sqrt{10})$. Simplify your answer.
- 2. Rewrite $\frac{2+i}{2-i}$ without an imaginary number in the denominator.
- 3. Write the equation of the line that passes through the two points (-3,4) and (6,-8).
- 4. If f(x) = 3x + 2 and $g(x) = x^3 1$, find (f+g)(x), (f-g)(-1), and (fg)(6).

5. Find all six standard trig functions if $\theta = -\frac{5\pi}{4}$.