Assignment #9-4

Precalculus Book: Pg. 384 5, 12, 35, 36, 40, 41, 68, 71-74

Additional Problems:

- 1. Find the equation of a line that passes through the points (4,2) and (-8,5).
- 2. Find a new equation of the function, $f(x) = x^2$, that shifts 5 units to the left, 7 units down, stretches vertically 2 units, and flips over the x-axis.
- 3. Find the equation of a polynomial with these zeros: 4i, -4i, and 3. Leave your answer in standard form (this means multiply your factors).
- 4. Find $\cot\left(\arcsin\left(-\frac{5}{13}\right)\right)$ (Hint: Draw a triangle and remember the preset intervals for arc functions.)

5. Find f^{-1} if $f(x) = 3x^2 + 1$. Is f(x) one-to-one?