HW#2

- 1. Show that $X^5 + X^3 + 1$ is irreducible over GF(2). You may use the statement "gfdeconv" in MATLAB to help.
- 2. Construct a table for $GF(2^3)$ based on the primitive polynomial $P(X) = X^3 + X + 1$. Display the power, polynomial, and vector representations of each element. Determine the order of each element.