Math 601  Homework Assignment #8  Due Wednesday, March 30, 2016

Read Sections 4.1 through 4.2 of the textbook (Hankerson, et al.). While you’re reading, do all the exercises. Most of them are quick and easy, and most of them have answers in the back of the book. When they ask you to repeat the same exercise on many different codes, quit when you feel you have mastered it. You are responsible for knowing how to do all the things in the exercises. Write up and hand in solutions to the following exercises.

You must show all your work and justify all your answers.

Exercises in the textbook

Sec. 3.6, p. 82: #3.6.5 (f), 3.6.6 (a,b,c)
In #3.6.6, $s_1$ is the “first syndrome” $wH$ and $s_2$ is the “second syndrome” $s_1B$.
Sec. 3.7, p. 83: #3.7.3 (a), 3.7.10
Sec. 4.1, pp. 91–95: #4.1.2 (a), 4.1.3, 4.1.11 (a,b), 4.1.20 (a,b), 4.1.22

Extra credit:

Sec. 3.7, p. 83: #3.7.7