

Assignment #5 5.1, 5.9

- [A] Write down a generator matrix and a parity-check matrix for the ternary Hamming code of length $\frac{3^2-1}{3-1}=4$.
- [B] Write down a generator matrix and a parity-check matrix for the binary Hamming code of length $2^4-1=15$.
- [C] Calculate the spherical bounds (both of them), the Plotkin Bound, and the Singleton bound for $A_2(5, 3)$. Use these to construct an optimal binary code of length=5, $d=3$.

Assignment #6 7.6, 7.7, 7.13

Exam 2 covers Chapters 4, 5, 7-part 1.

Tentatively scheduled for Monday 3/27/23