CS 6817 HW 2

2.38, 2.46, 2.56 (a) and (b)

# 2.38

We use this formula of stability:

The formula for Fourier coefficients of the Tribes function is given in the textbook on page 97:

There are tribes with members each. For each , we write it as , where is the intersection of with the i-th tribe:

Since the we need in the stability formula:

If we define , then the above could be rewritten as

Since when . Notice both instances have in common.

So,

We want to simplify something:

So,

# 2.46