

Homework Assignment # 3
Due Friday, October 3, 2003.

Problem 1: *Hildebrand*, Chapter 9, # 15

Problem 2: *Hildebrand*, Chapter 9, # 21

Problem 3: *Hildebrand*, Chapter 9, # 22

Bonus Problem!

Problem 4: Suppose that in plucking a string, you pull it at one point making a broken-line function shape. (For convenience, you may assume the string has length π .)

- a) Does the sound change depending on where you pluck the string? If so, how?
- b) Does the sound change depending on how hard you pluck the string? If so, how?
- c) Is there any difference between striking and plucking the string? If so, what?