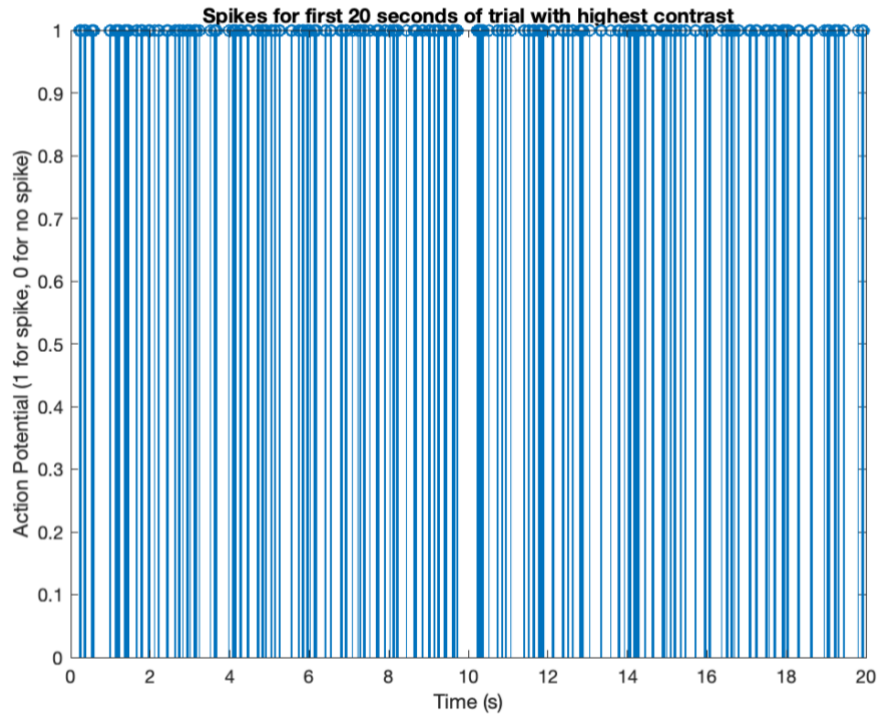


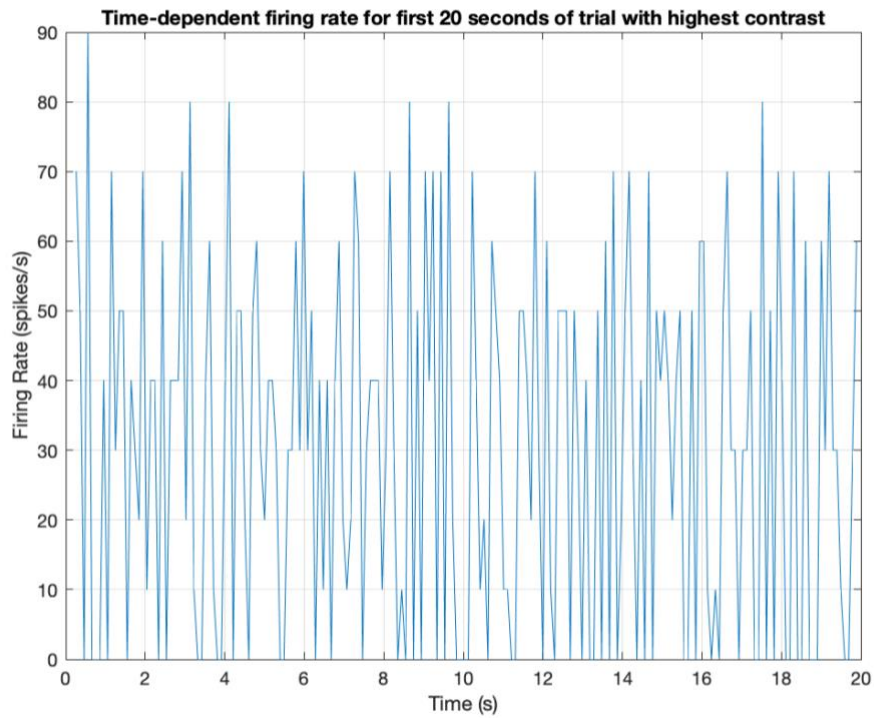
Homework 4 (PHYS 585)
Lakshay Sharma (worked with Matthew Belyakov)

Problem 1

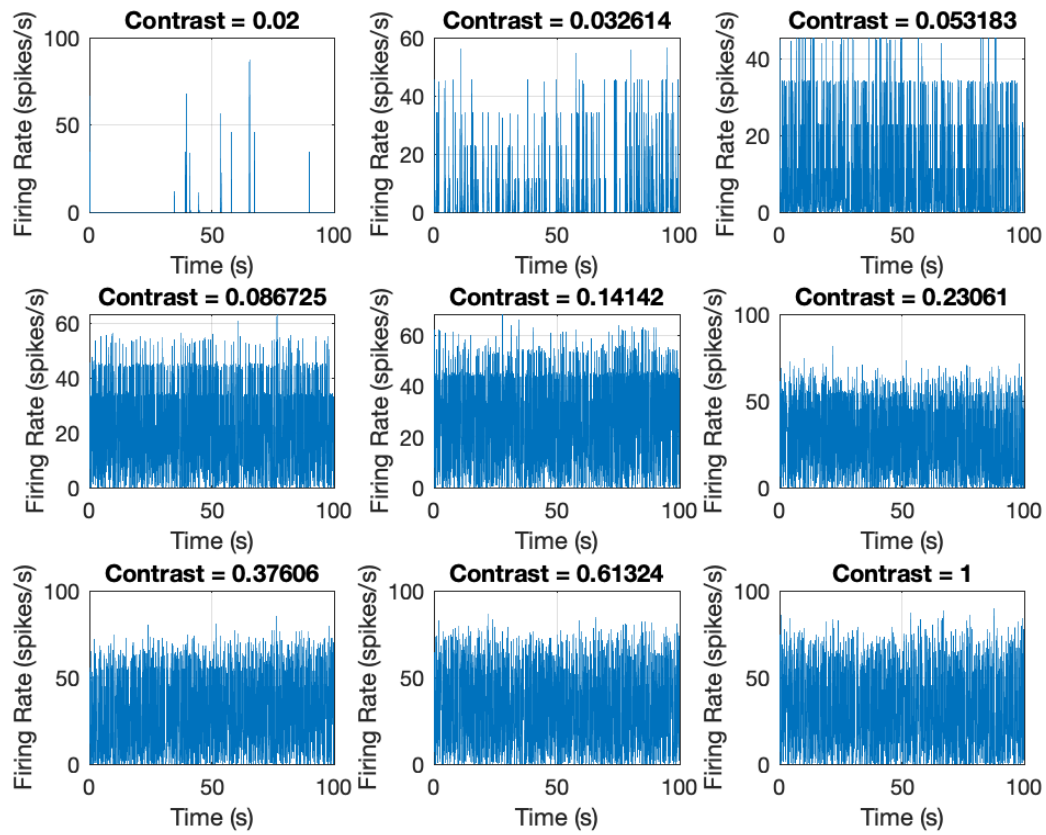
a)



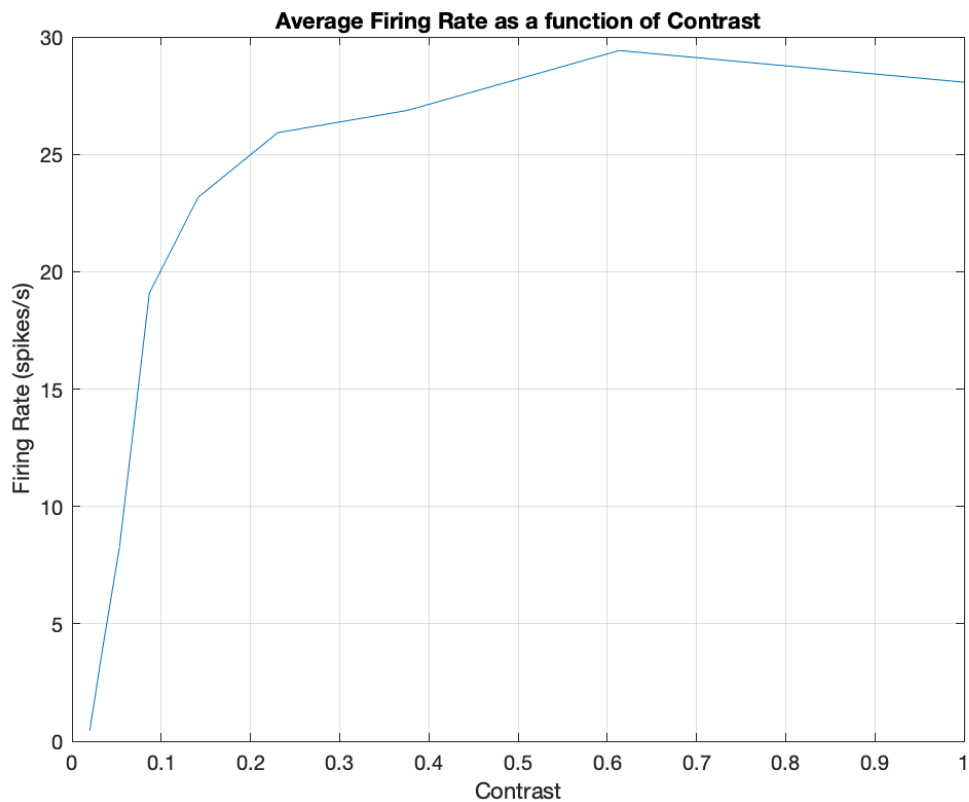
b)



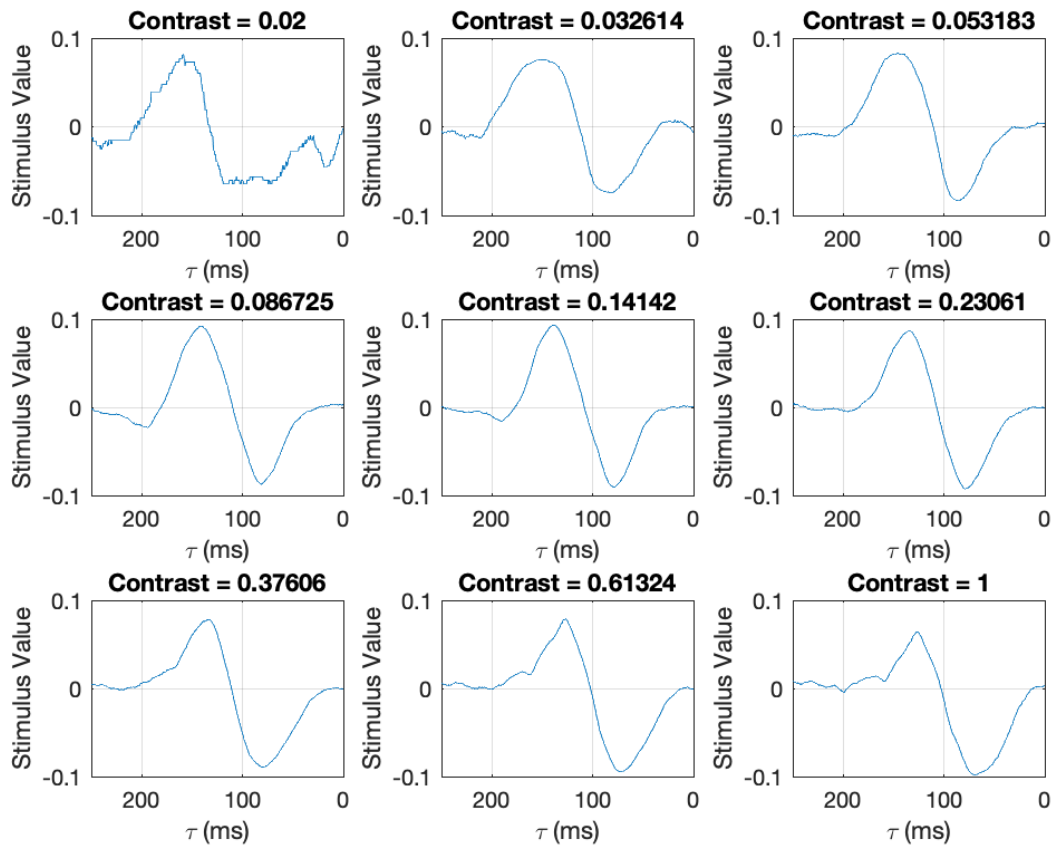
c)



d)



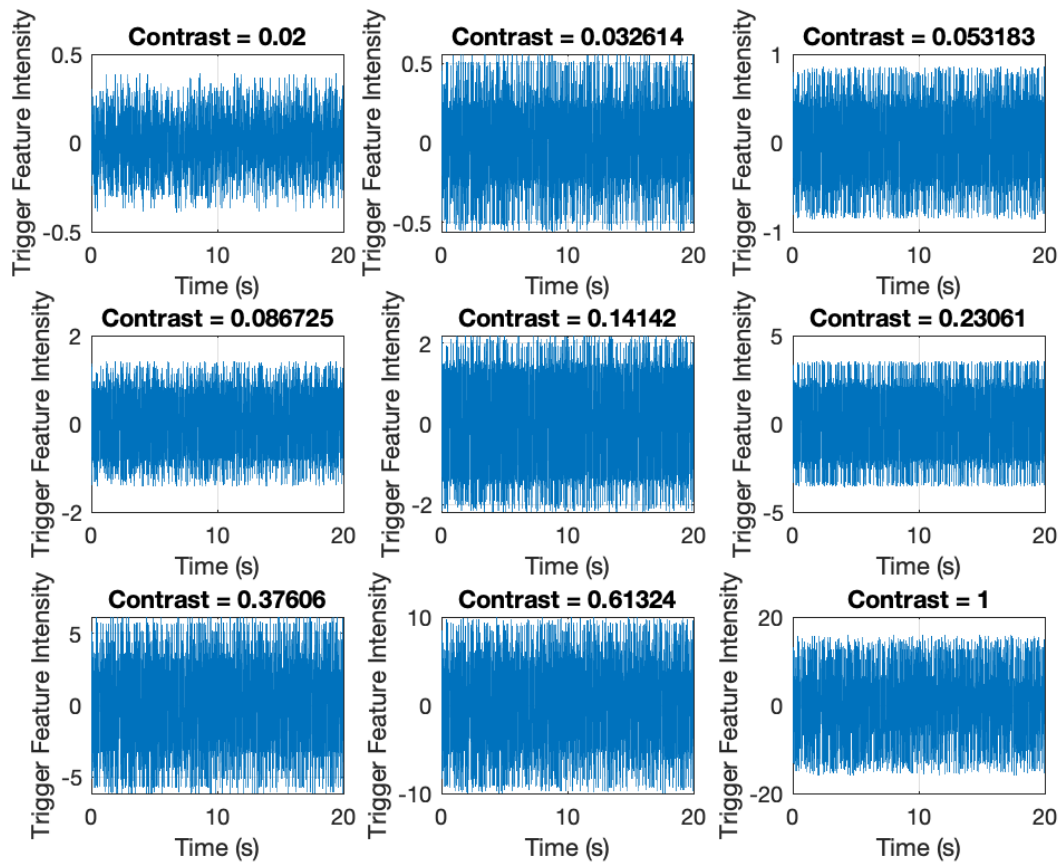
e)



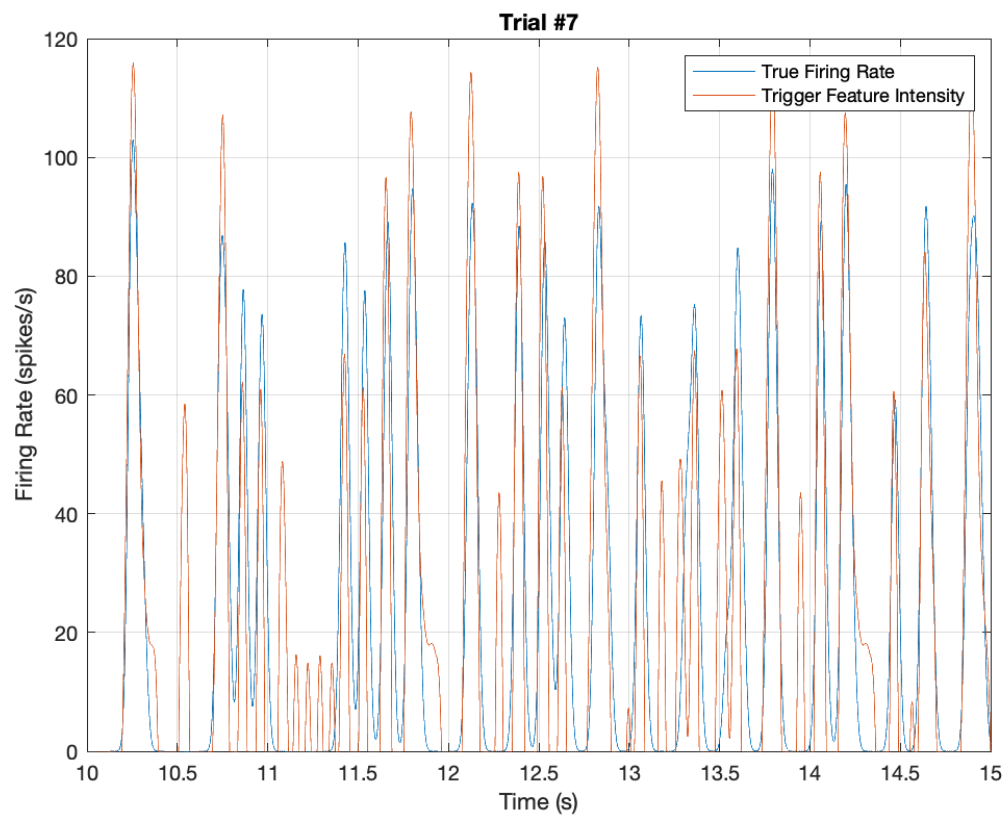
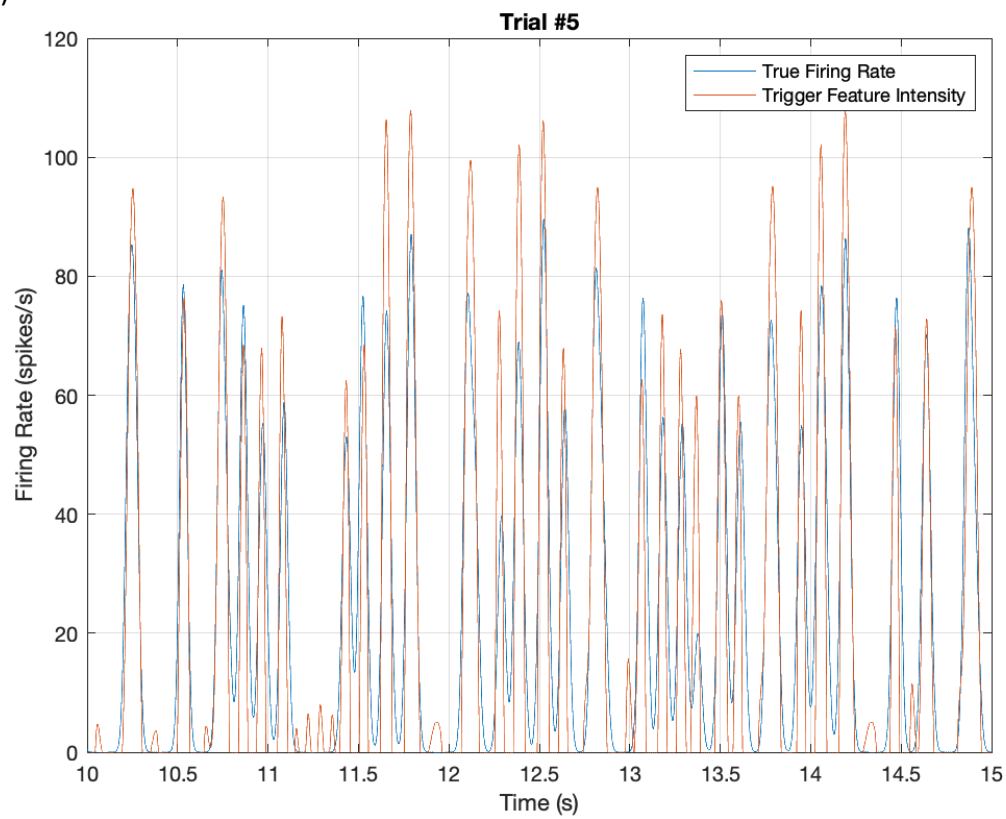
- f) The spike-triggered average clearly becomes more refined as the contrast increases, therefore an increase in contrast gives us increase in temporal precision. In addition, the response doesn't change much, so the cell doesn't care too much about contrast.

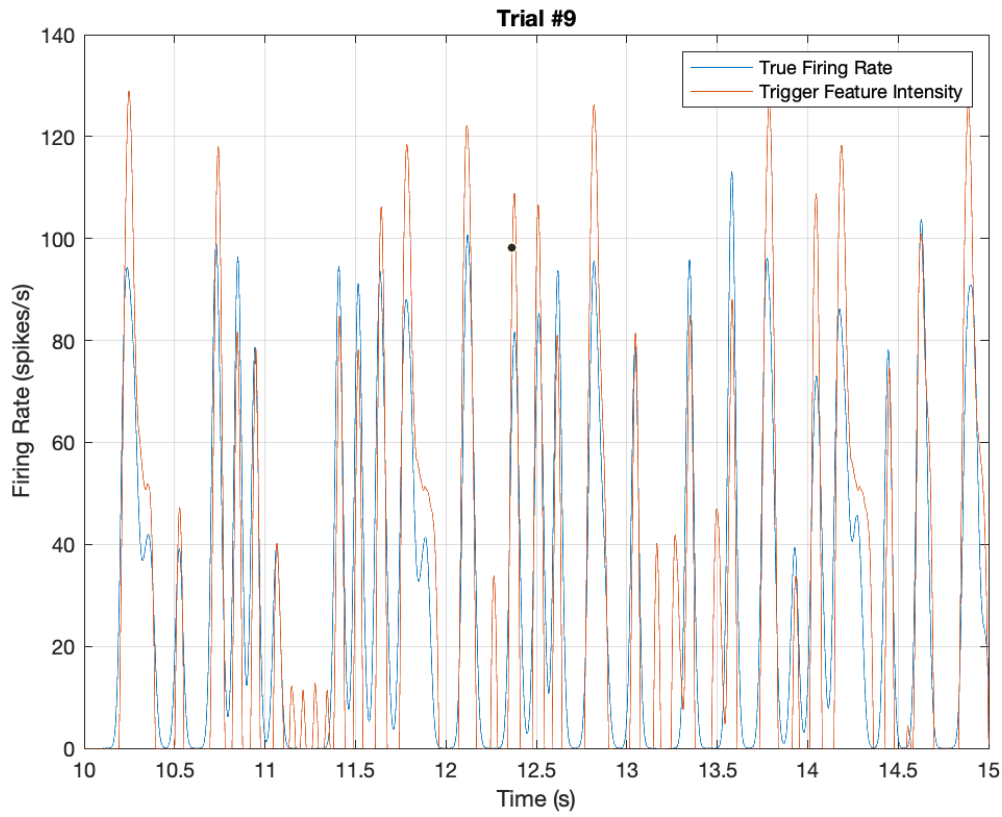
Problem 2

a)

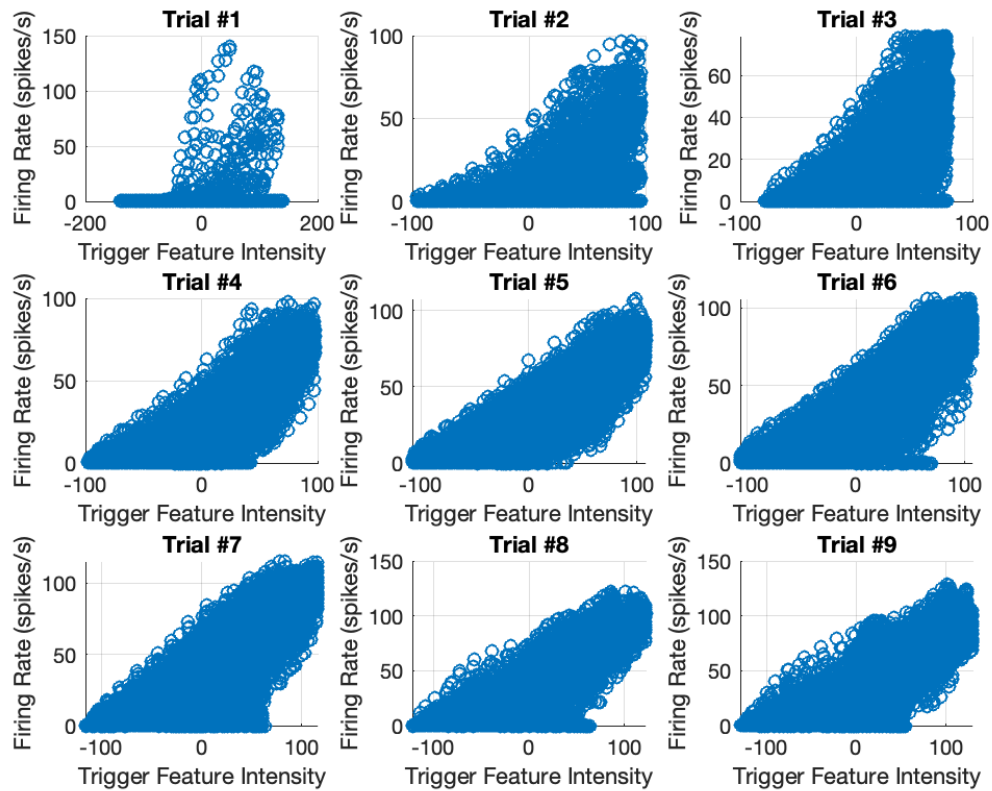


b)

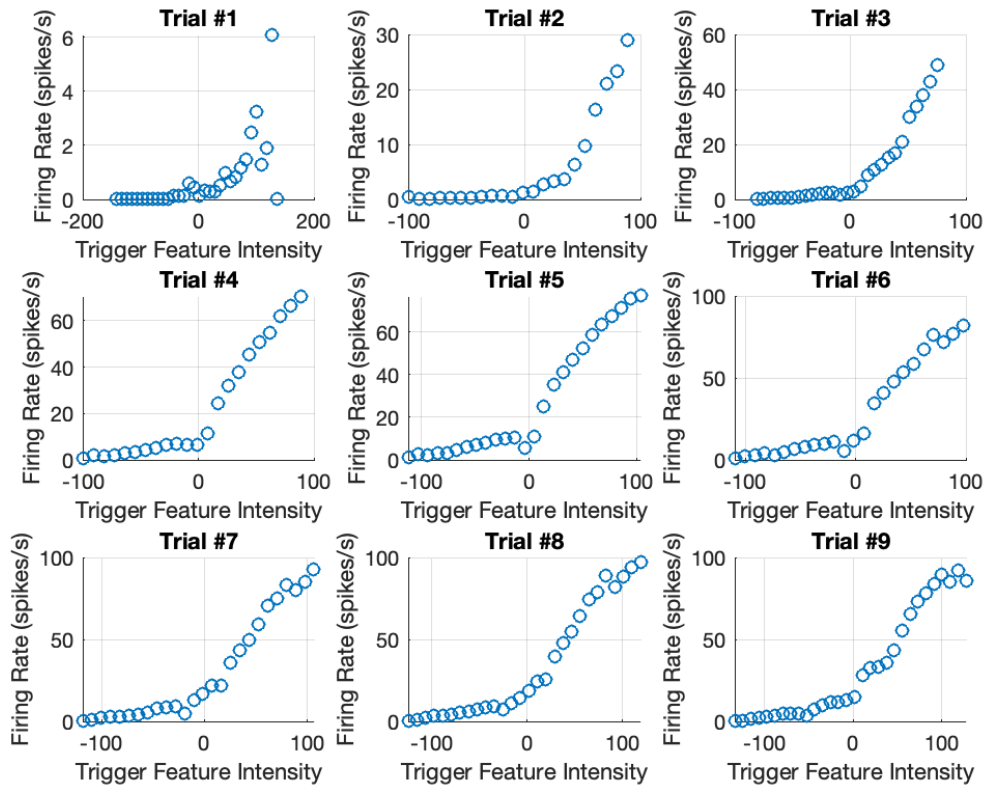




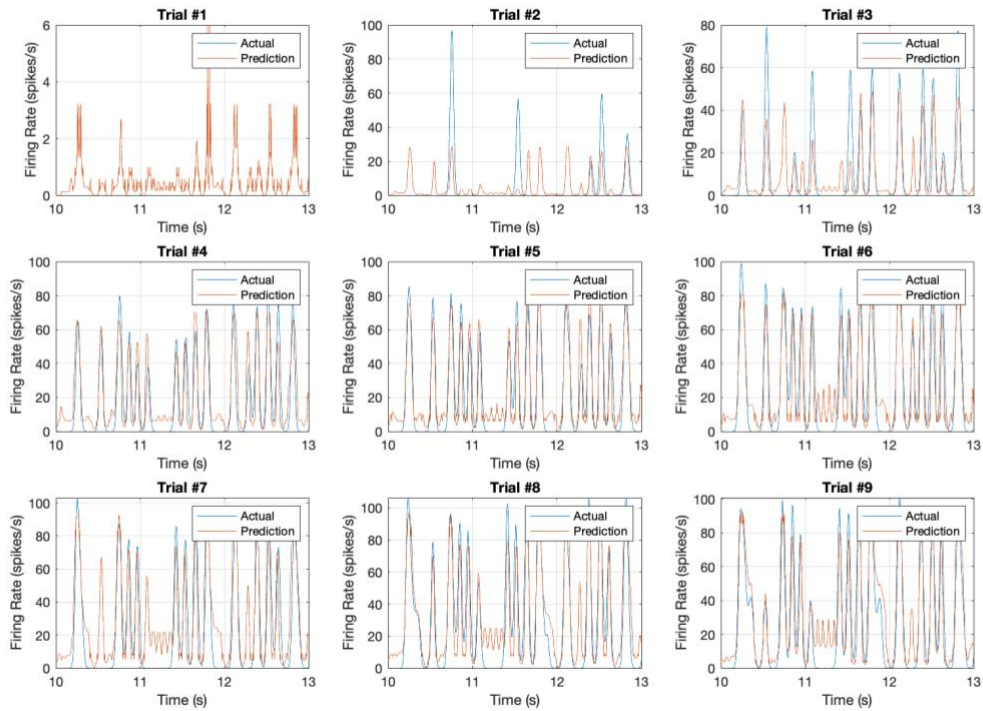
c)



d)

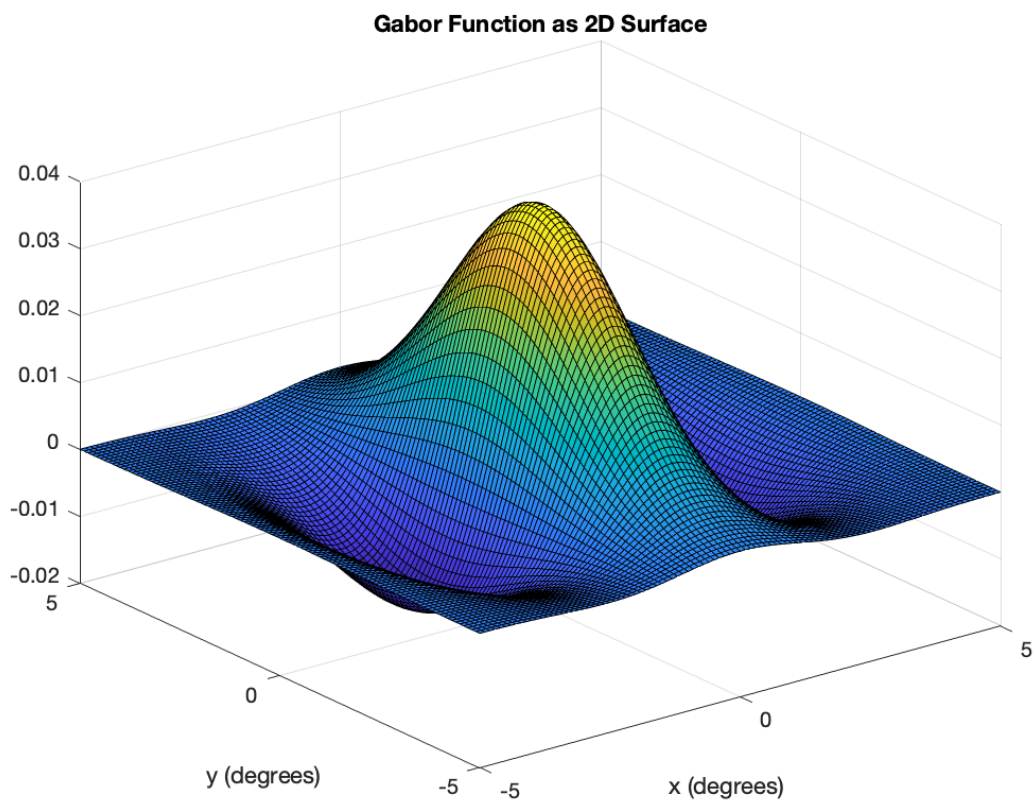
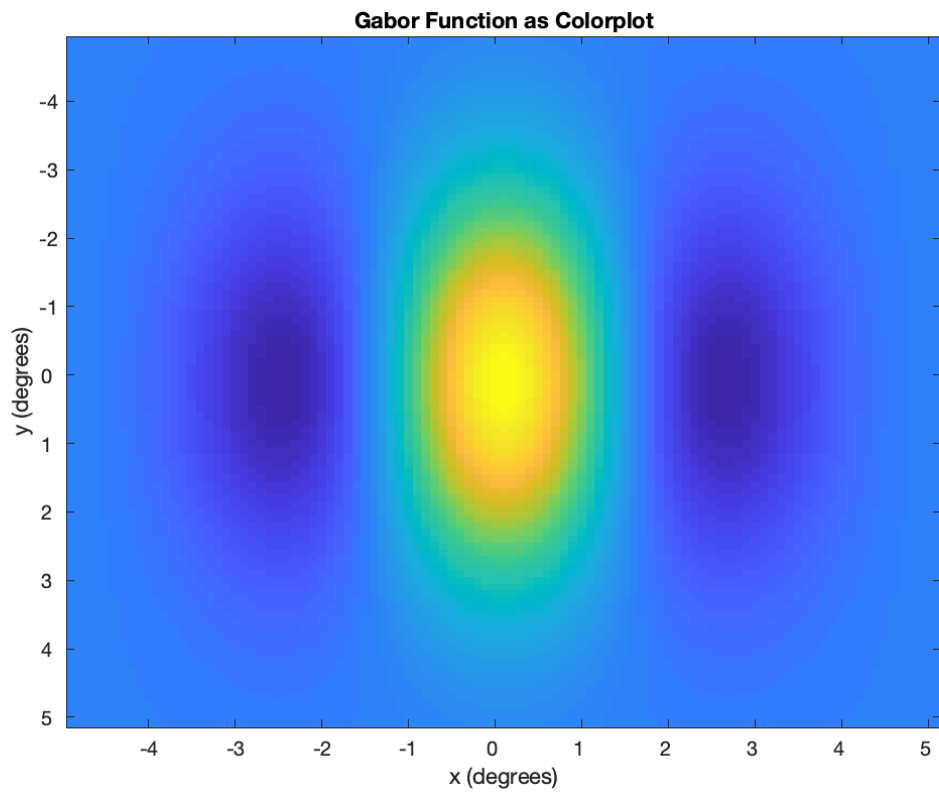


e)

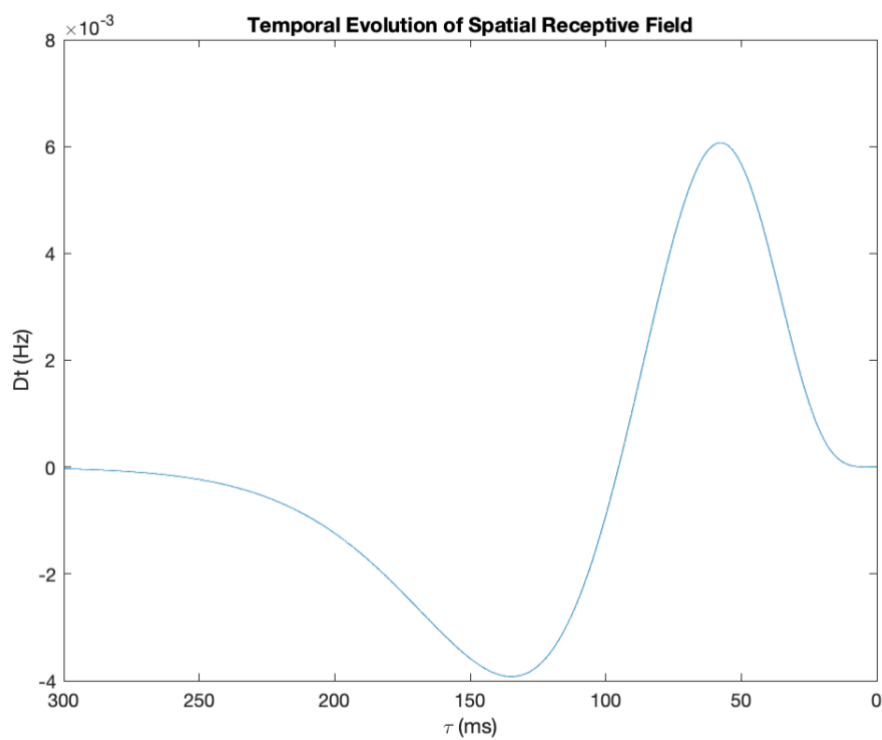


Problem 3

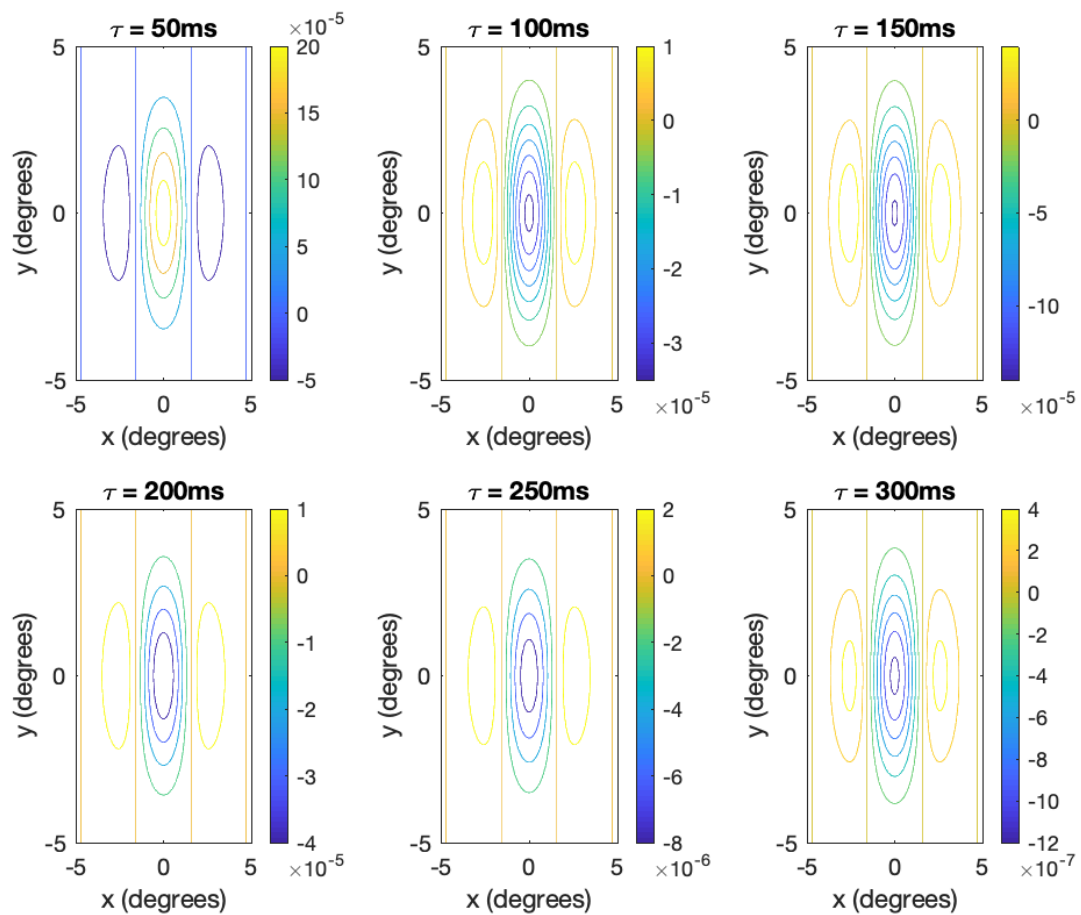
a)



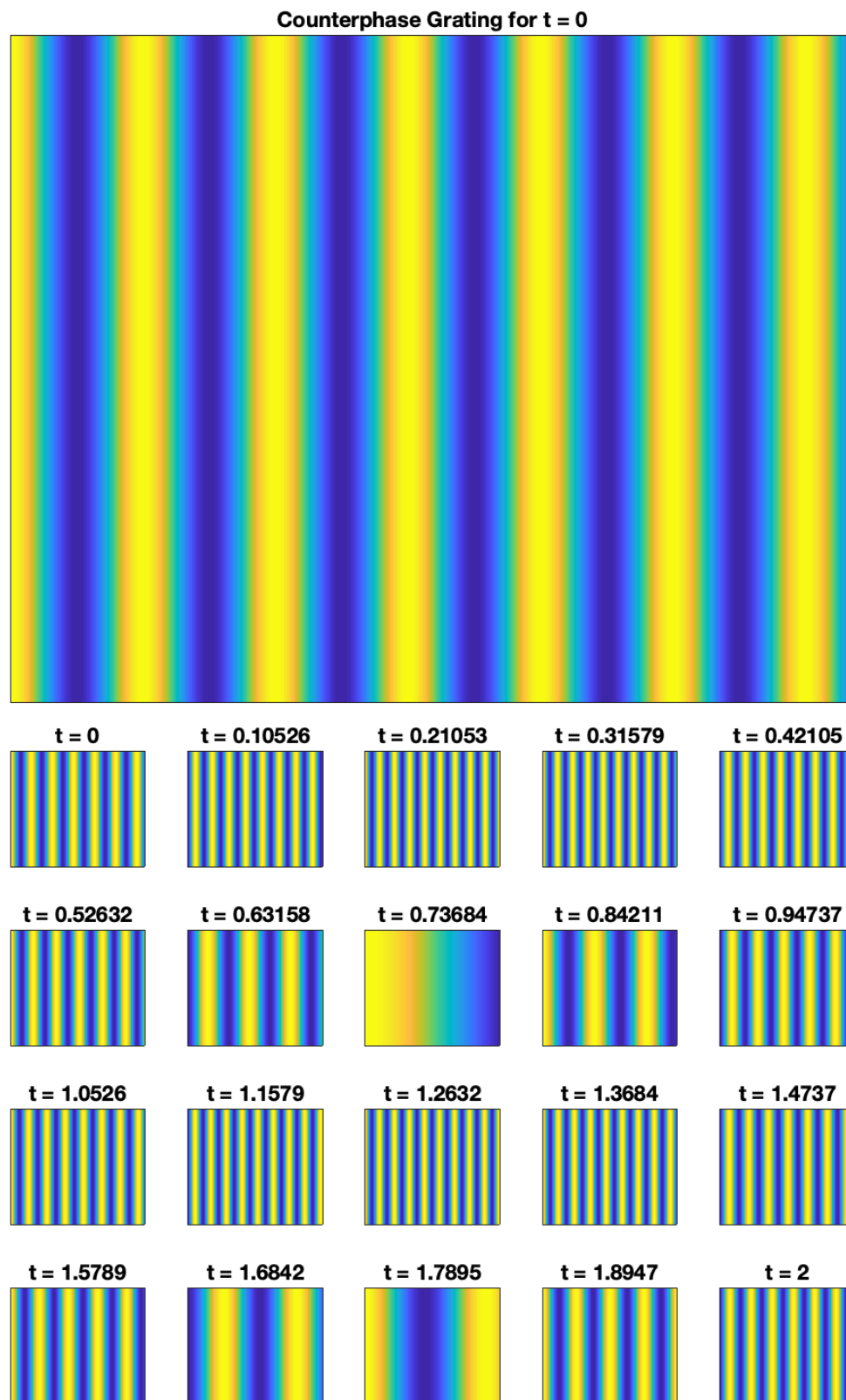
b)



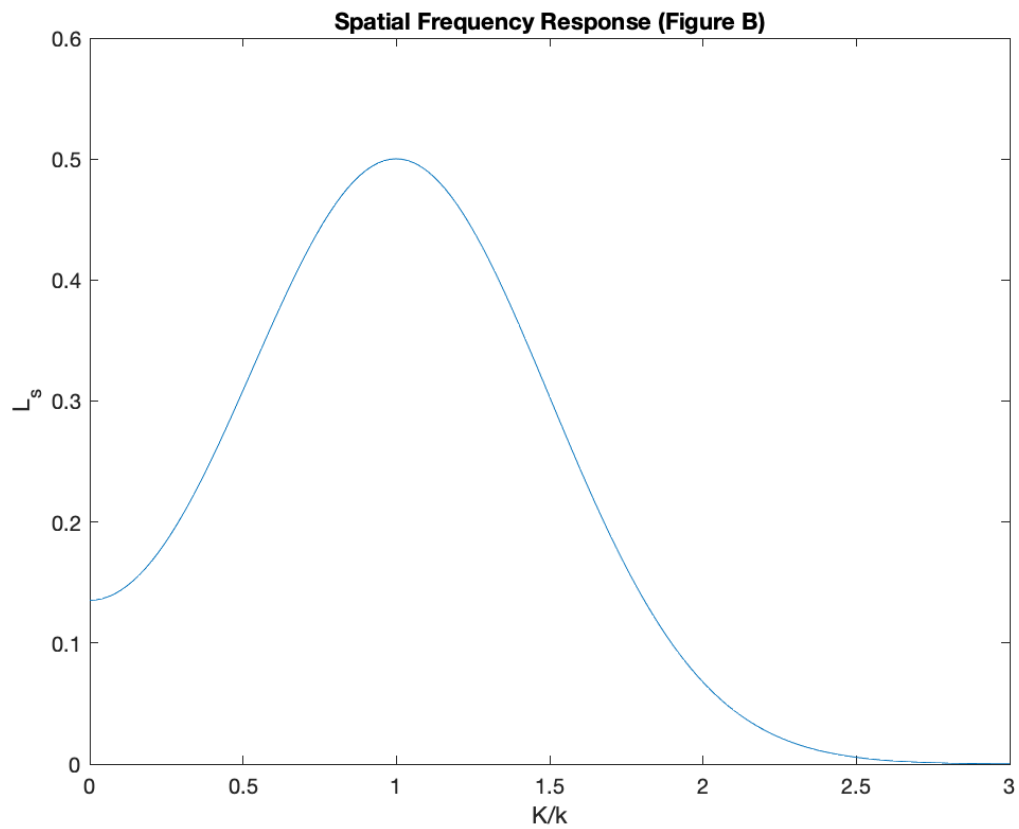
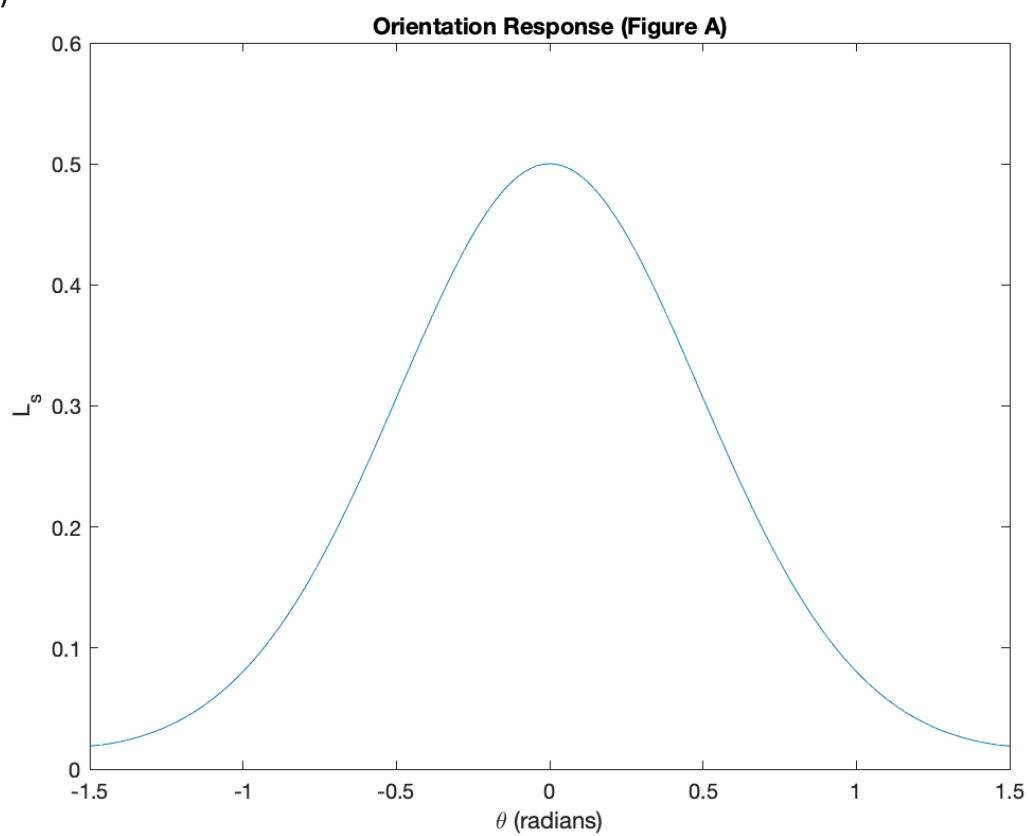
c)

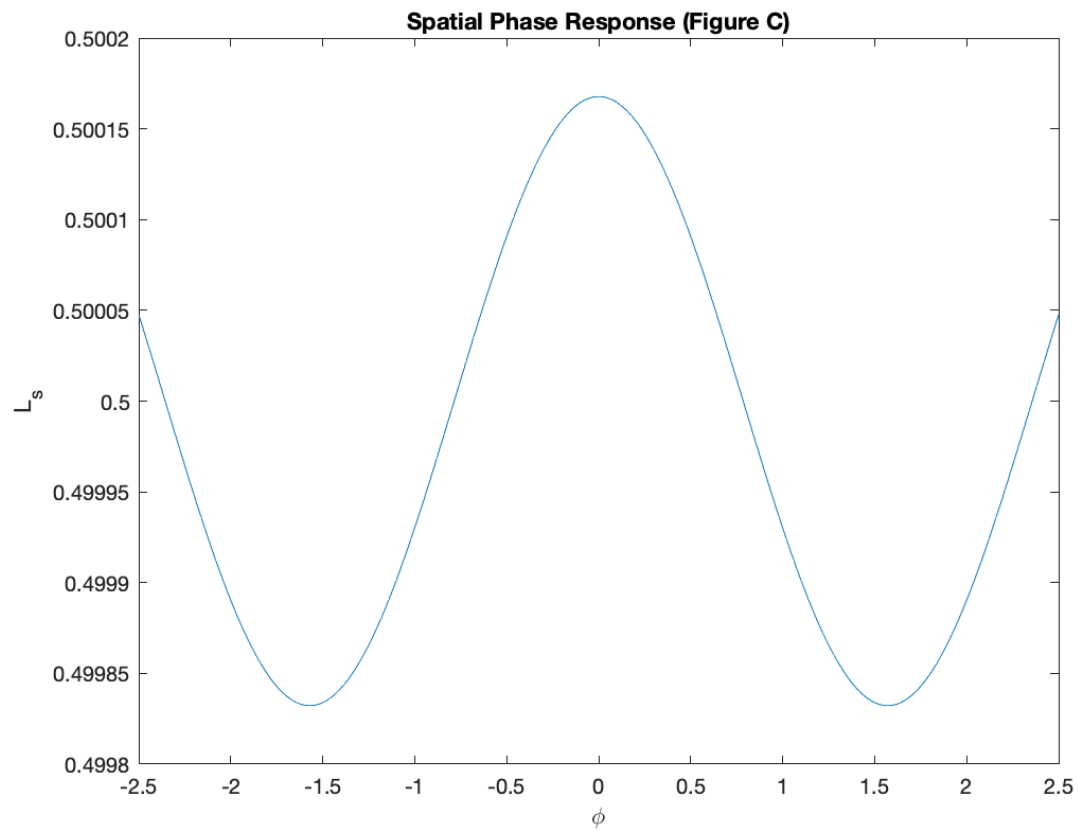


d)



e)





f)

