**Homework 4 (PHYS 585)**

**Lakshay Sharma (worked with Matthew Belyakov)**

**Problem 1**

A picture containing fence

Description automatically generated

A screenshot of a cell phone

Description automatically generated

A close up of a device

Description automatically generated

A close up of text on a white surface

Description automatically generated

A close up of a map

Description automatically generated

1. 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 close up of a piece of paper

Description automatically generated

A screenshot of a cell phone

Description automatically generated

A screenshot of a cell phone

Description automatically generated

A screenshot of a cell phone

Description automatically generated

A close up of a map

Description automatically generated

A picture containing text, map

Description automatically generated

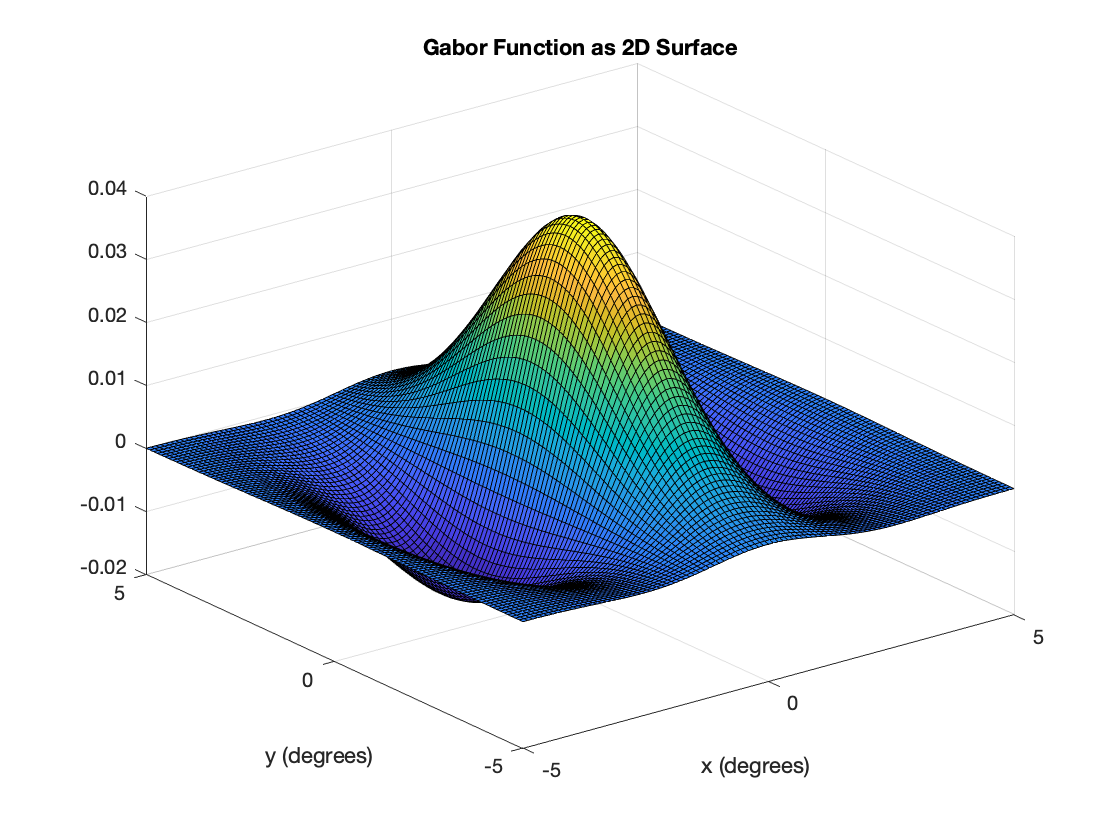
A close up of text on a white background

Description automatically generated

**Problem 3**

A picture containing light

Description automatically generated



A picture containing map, man

Description automatically generated

A close up of text on a white background

Description automatically generated

A picture containing pencil

Description automatically generated

A screenshot of a cell phone

Description automatically generated

A screenshot of a cell phone

Description automatically generated

A close up of a map

Description automatically generated

A screenshot of a cell phone

Description automatically generated

A close up of a map

Description automatically generated