This rst homework is a warm up to thinking about functions. It is the only homework in Excel; all problems can be completed with standard Excel functions (formulas that begin with =). A list of Excel functions is found here: `http://www.excelfunctions.net/ExcelFunctions.html`.
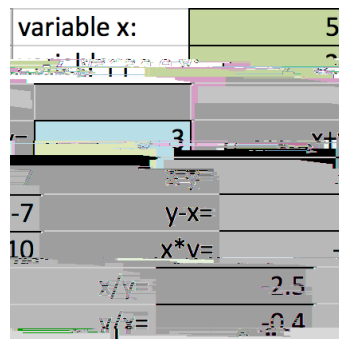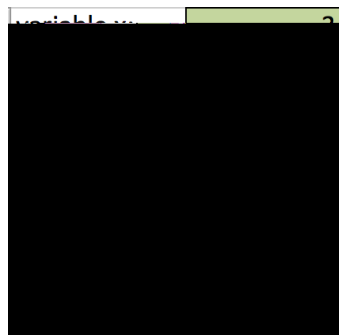
Note that there are **two sheets**, one for each part. Write an estimate of the time it took to complete each part at the bottom of each spreadsheet.

Part 1: Using Excel to Manipulate Numbers and Strings

A *variable* (e.g., *x, y, A, B,...*) is a symbol that represents a value. In the Excel spreadsheet, green cells *assign* a value to a variable. For example, the value 5 is *assigned* to the green cell B12; thus, when we refer to the variable B12 we mean the value 5. A *function* is a cell that takes numbers (e.g., 5) or references to other cells (e.g., B12) and computes a new value. In Excel, these functions will begin with an equals sign.

Manipulate numbers in Excel. Write functions in the blue cells that calculate the expressions in the rst column using the variables *x* and *y*. When you enter di erent numbers in the green cells, the blue cells should automatically update:

What values of of the *x* and *y*

HW1.2: Using Excel to Calculate Hamming Distance