Microsoft Excel Example

Microsoft Excel is a spreadsheet, a software application that is handy for making calculations, especially repetitive calculations. Become familiar with Excel by using it to calculate the y coordinate of the point on a line using the equation of a line. The specific equation is

$$y=mx + b$$

which is the familiar slope-intercept form of an equation of a line. In this problem, the value of m is 2 and the value of b is 1. Perform these calculations for values of x from 0 to 5. Format the resulting worksheet such that it clearly communicates these requirements and the results of the task.

Microsoft Excel – Class Problem

Suppose you want to go skydiving. Of course an engineer would investigate an event such as this. If there is no drag or wind resistance, the velocity of a falling body can be determined by

V=Vo+g*t

where Vo is the initial velocity (which is zero), g is the acceleration due to gravity, and t is the elapsed time since the body began falling.

Use Excel to calculate the velocity for the first 15 seconds the body is falling, calculating the values of V at each integral second (0,1,2,3,…,15). Format the result appropriately so that your solution is organized and easily understood by someone not familiar with the assignment.