**MODELAÇÃO DOS RECURSOS FLORESTAIS 2019/20**

***FOREST MODELS 2019/20***

***Simulating the death of trees with a survival probability function and Monte Carlo Simulation***

Using the data in *SurvivalProb.xls* simulate which trees will die in the plot (area = 1000m2) using the death probability function presented below. Please note that you have some stumps in the plot.



Where,

d, is the tree diameter at breast height (cm)

gi, is the tree basal area, PI()/40000\*d^2, (m2)

g, is the average basal area of the plot (m2)

G, is the stand basal area (m2ha-1)