$\begin{array}{c} \textbf{3801ICT - Numerical} \\ \textbf{Algorithms} \end{array}$

Milestone One

Lochie Ashcroft - s5080439

Question 1

$_{\mathrm{T,s}}$	200	202	204	206	208	210
, rad	0.75	0.72	0.70	0.68	0.67	0.66
R, m	5120	5370	5560	5800	6030	6240

determined by distance (calculated from the return time of pulse) and the sweep angle of the radar. To give a meaningful radar display this information needs to be converted to cartesian coordinates and velocity and acceleration (both vectors) need to be calculated. Write a program to perform this operation (use centered finite differences(second-ordercorrect)) and test your program with the data shown in the table below.

Question 3