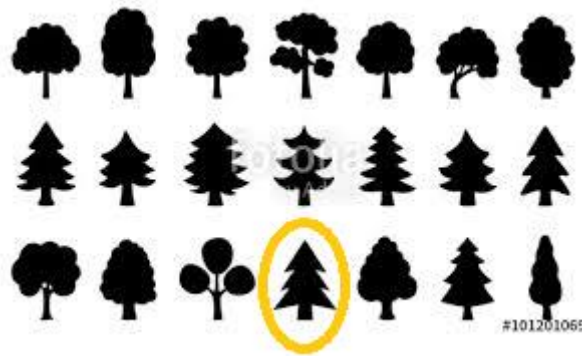


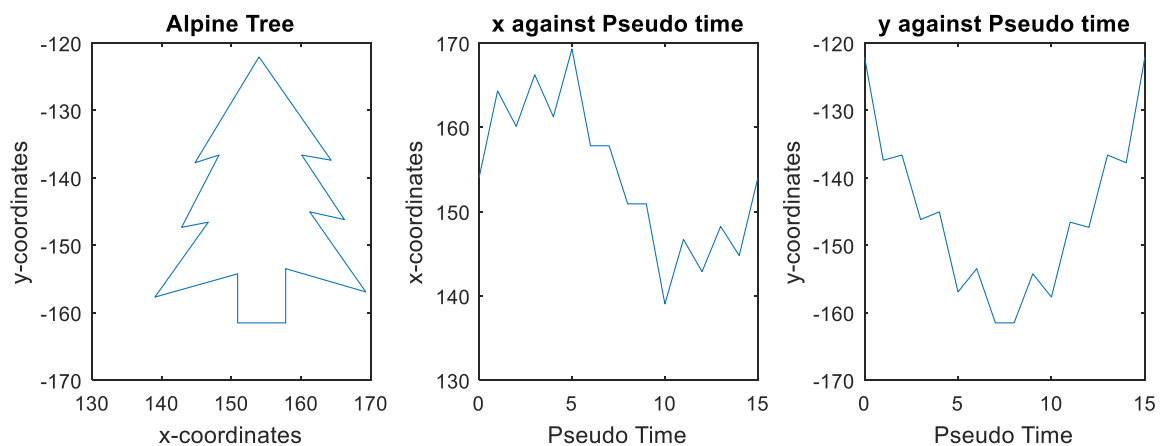
The tree encircled has been sketched using MATLAB's Image Processing toolbox, by calling the function, `roipoly`.



The vertices have been manually plotted to coincide with the vertices of the silhouette.

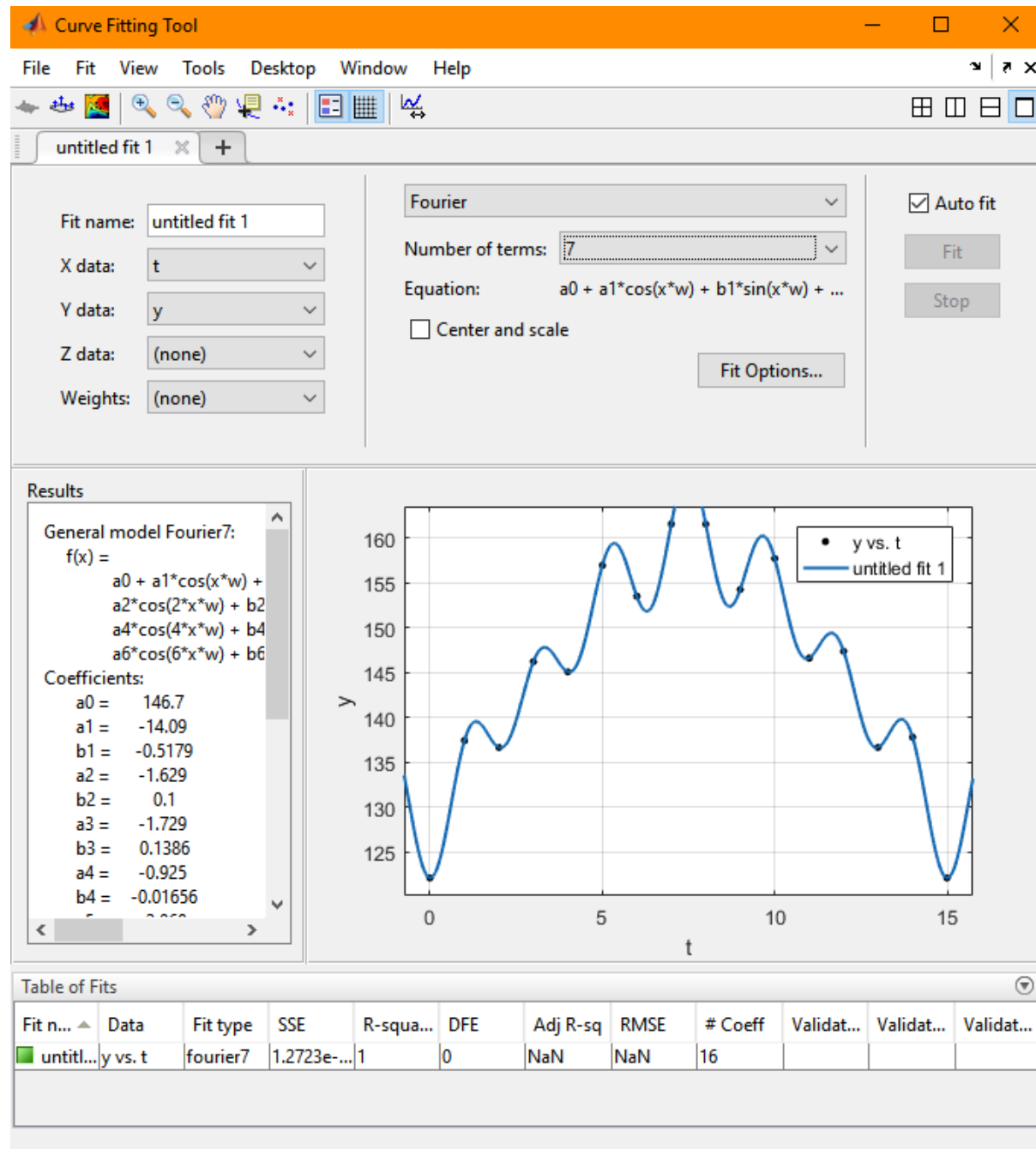
These output the coordinates required to plot the geometry traced.

A fictitious time domain is defined whose length is set equal to the number of vertices, and the x and y coordinates are plotted against it.



*N.B. The y coordinate points have been negated to rectify the inverted image obtained by the default points.*

Using the Curve Fitting App on MATLAB, the curves defined by x and y as functions of the fictitious time are approximated by the Fourier series. A good fit is obtained for order 7.



The new X and Y coordinates are obtained from the Fourier approximation, whose parameters are used to form their respective coordinate vectors. These are then plotted, and are seen to be identical to the original.

