

16-741 Mechanics of Manipulation

Spring term, 2004

Assignment 1, Out: 19 January 2004

Due: 26 January 2004

From the text, do exercises 2.1, 2.2, 2.3, 2.4, 2.6.

Note that in exercise 2.3 you are not free to choose any motion you like. The robot uses a sequence of three rotations.

For both 2.3 and 2.4 the motions are not continuously varying motions, and the centrode will not be a smooth curve, it will be a “central polygon”.

Note that postscript files for the figures may be found online at

<http://www.cs.cmu.edu/~mason/ftp/MoRMFigures/FiguresRenamed/>