| Scialb cheat sheet |  |
| :---: | :---: |
| input | user input. <br> example: $x=i n p u$ t("How many iterat ion $s ? ")$ |
| disp | displays variables |
| matrix | example: $\left[\begin{array}{lllllll}1 & 3 & 4 & 6 ; 5 & 6 & 7 & 8\end{array}\right]$ ',' means row \& ';' means column |
| repmat | replicate's matrix. |
| plot | used to create plots in the plane. |
| sqrt | square root. |
| modulo | syntax: x (mod y) |
| ones | matrix made of ones. <br> syntax: ones ( $\mathrm{x}, \mathrm{y}$ ) <br> Matrix of size $x \times y$ |
| zeros | matrix made of zeros. <br> syntax: zeros ( $\mathrm{x}, \mathrm{y}$ ) <br> Matrix of size $x \times y$ |
| rand | Returns a real number randomlytaken between 0 and 1. |
| function | ```syntax: function [output arguments] = functi onn - ame (input arguments) instructions endfun ction``` |
| $\operatorname{plot}(\mathrm{x}, \mathrm{y})$ | graph of 'x' vs 'y'. |
| plot2d | plots a set of 2D curves. |
| plot2d2 | It is the same as plot2d but the functions given by $(x, y)$ are supposed to be "piecewise constant". |
| plot2d3 | It is the same as plot2d but curves are plotted using "vertical bars". |
| plot2d4 | It is the same as plot2d but curves are plotted using "arrows style". |
| fplot2d | 2D function plot |
| fplot3d | 3D function plot. |
| subplot() | plots multiple graphs on a single graphic window. |
| comet | 2D comet animated plot. |
| paramf- <br> plot2d | animated plot of a 2D parametrized curve. |
| strrev | returns string reversed. |


| Scilab che | at sheet |
| :---: | :---: |
| deff | It is an embedded scilab function for defining custom functions. <br> The deff() function receives 2 arguments(both strings). Each string contains parts of the function definition which are going to be evaluate by Scilab and turn into instructions. <br> example:deff(' $y=f(x)$ ',' $y=s \operatorname{qri}^{2} t^{-}\left(x^{5}\right.$. $^{x}$ + 6)') <br> for: $f(x)=\sqrt{ } x 2-5 x+6$ |
| complex | complex number: <br> syntax: $x+\% i$ This will dislay complex number $x+i$ where, $i=\sqrt{ }-1$ |
| mopen | opens a file in scilab. <br> syntax: mopen( SCI +'/ fil e.txt', 'rt') |
| mput\| | writes strings in a text file. <br> syntax: r = mputl(txt, file_desc) |
| mgetl | reads lines from an text file. <br> syntax: txt $=$ mgetl ( fil e_desc [,m]) |
| mclose | closes an opened file. <br> syntax: mclose (fi le_ name) |
| linspace | It generates a row vector of ' $n$ ' equally spaced values ranging exactly from "x1" to "x2". in short, vector of size n whose components are equidistant. |
| clf | It can be used to delete all children of a given graphic window, hence 'clearing it'. |
| isoview | This property is used to have isometric scales on the $x, y$ and $z$ axes (for exemple to make the display of the curve $\sin (x)$ versus $\cos (x)$ be a circle not an ellipse). |
| gsort | gsort performs a "quick sort" for various native data types. By default- Sorting is performed in decreasing order ' $d$ '. syntax: gsort( inc rea ,'g ','where, i represents increasing order \& 'd' for decreasing order (default). |

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