

Matlab commands

Command window

1. enter: execution
2. ↑: previous command
3. ↓: next command
4. ;: no display
5. %: comment
6. clc: clear command window

Arithmetic operation

1. +
2. -
3. *: multiplication
4. /: division
5. ^: exponentiation

Formats

1. format short: scaled fixed point format with 5 digits.
2. format long: scaled fixed point format with 15 digits for double and 7 digits for single.
3. format short e: floating point format with 5 digits.
4. format long e: floating point format with 15 digits for double and 7 digits for single
5. format short g: best of fixed or floating point format with 5 digits.

6. format long g: best of fixed or floating point format with 15 digits for double and 7 digits for single.
7. format bank: fixed format for dollars and cents.

Built-in functions

1. sqrt(x)
2. nthroot(x,n): returns the real nth root of the elements of x.
3. exp(x)
4. abs(x)
5. log(x)
6. log10(x)
7. factorial(x)
8. sin(x)
9. cos(x)
10. tan(x)
11. cot(x)
12. round(x): rounds the elements of x to the nearest integers
13. fix(x): rounds the elements of x to the nearest integers towards zero
14. ceil(x): rounds the elements of x to the nearest integers towards infinity
15. floor(x): rounds the elements of x to the nearest integers towards minus infinity
16. rem(x,y): remainder after division
17. sign(x): For each element of x, sign(z) returns 1 if the element is greater than zero, 0 if it equals zero and -1 if it is less than zero.

Variable names

1. No punctuation characters
2. Case sensitive
3. No space allowed between characters
4. Avoid the name of a built-in function

Managing variables

1. clear
2. clear x,y,z
3. who: lists the variables in the current workspace
4. whos: list current variables, long form