Exercise 1

a)

* solve 3x = 17 and check the result.

Ans. 3x =17

* xlog10(3) = log10(17)
* x = log10(17) / log10(3)
* log10(e3)

Ans. log10(exp(3))

1.3029

* eπ∀153

ans. exp(pi\*sqrt(153))

7.5232e + 16

b) complex numbers

Execute commands exp(pi/2\*i) & exp(pi/2i).

Explain the difference between the two results.

Ans. exp(pi/2\*i) = 0.00 + 1.00i

exp(pi/2i) = 0.00 – 1.00i