Lab 0

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1   Introduction

UNIX Commands: (see online Tutorial)

Octave commands:
#! is your first two characters for running an executable
-q suppresses printing of octave messages
-f suppresses reading of any initialization file
octave myfile.oct runs your script or chmod +x myfile.oct and ./myfile.oct

Handwritten Example:
#!/usr/bin/octave -qf
Area of a rectangle

Number representation rounding error
Numbers are represented as a string of any length coupled with a radix point.
The radix separates the integer from the fraction.

Floating point numbers have the general form:

$$(-1)^{\sigma} * s * b^{e} \tag{1}$$

where:
σ is the sign
s is the fraction
b is the base
e is the exponent

Quiz:
What number in base 10 is defined by $(\sigma, s, b, e) = (1, 7A2DB, 32, 1)$?