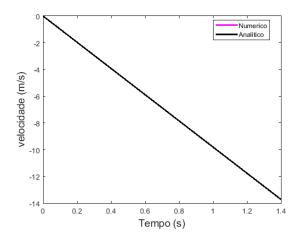
# Física Computacional

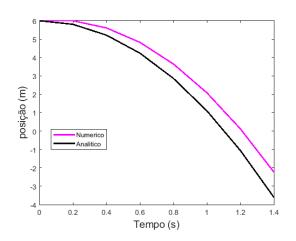
# TRABALHO 1 -Soluções

## Problema 1.1

A\_QUEDA DA PEDRA

d) soluções obtidas para h=0.2





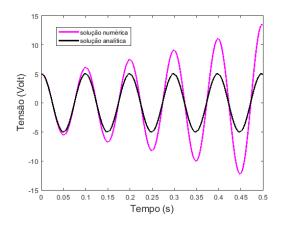
Instante em que chega ao solo = 1.210204 s
Velocidade com que chega ao solo = -11.860000 s

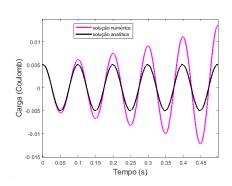
### Problema 1.2

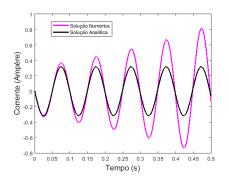
#### B\_OSCILADOR HARMÓNICO SIMPLES (circuito LC — Método de Euler)

d) Soluções obtidas para h=0.001

Period Teórico=2\*pi/W = 0.0993



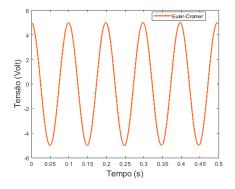


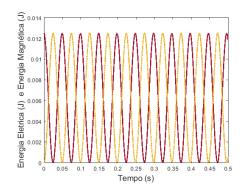


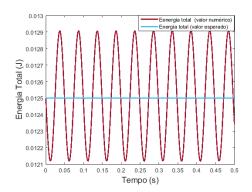
### Problema 1.3

#### **B\_OSCILADOR HARMÓNICO SIMPLES** (circuito LC — Método de Euler-Cromer)

b) Soluções obtidas para h=0.001



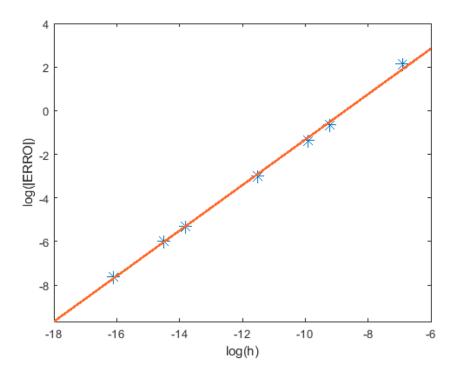




## Problema 1.4

#### B\_OSCILADOR HARMÓNICO SIMPLES (circuito LC — Ordem do Método de Euler)

Erro Gobal do método de Euler



m = 1.0438

Erro Gobal do método de Euler\_Cromer m = 1.0142