

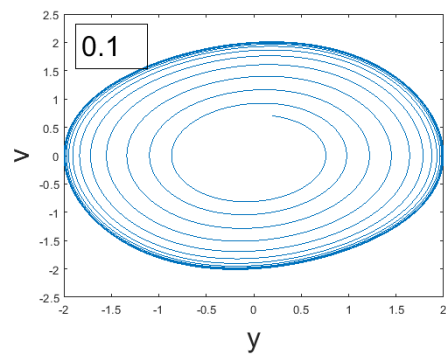
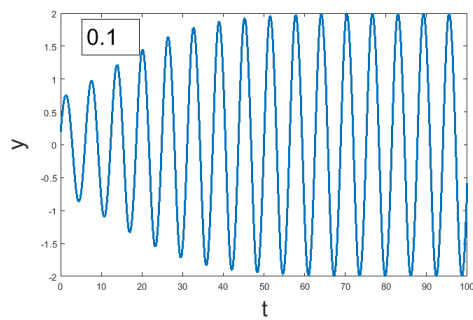
Física Computacional

TRABALHO 4 – Soluções

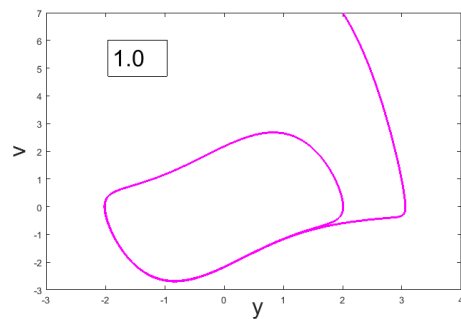
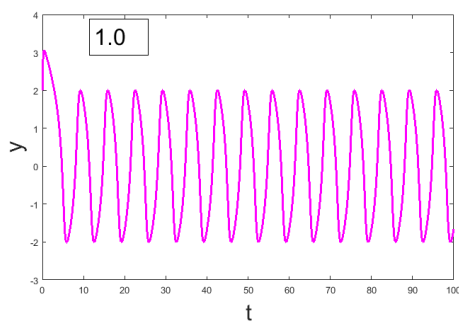
Problema 4.1

Oscilador de van der Pol (RK3)

a) $\epsilon = 0.1, \quad y(0) = 0.2, \quad v(0) = 0.7$



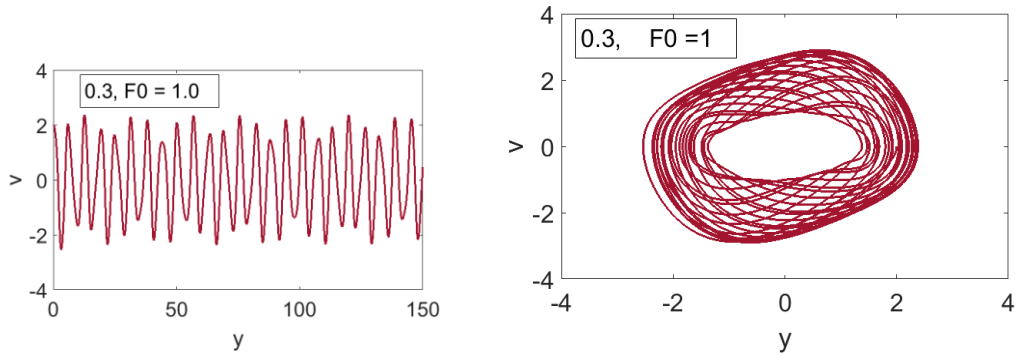
b) $\epsilon = 1, \quad y(0) = 2, \quad v(0) = 7$



Problema 4.2

Oscilador de van der Pol com forçamento (RK4)

) $\epsilon = 0.3$, $y(0) = 2$, $v(0) = 0$



Problema 4.3

Ode45 (espaço de fases)

Oscilador de van der Pol

