

PME3380 – Modelagem de Sistemas Dinâmicos

LISTA A

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1) Script e teste do arquivo “teste.sci” com $x = 0.5 \cdot \pi$

```
1 function [y]=teste(x)
2 y=x+x^2+sin(x*2*pi);
3 endfunction

--> teste(0.5*pi)
ans =

3.6078962
```

2) Script do arquivo “teste2.sce” e seus outputs (gráficos que elucidam as ferramentas de edição de gráficos).

```
1 deff(' [y]=test0(x) ', 'y=x+x^2+sin(x*2*pi) ')
2 deff(' [y]=test1(x) ', 'y=-x+x^2+x^3')
3 deff(' [y]=test2(x) ', 'y=sqrt(x) ')
4 x=-2:0.5:3;
5 a=1;
6 b=0;
7 t1=(a==1);
8 t2=(b>0.5);
9 if and([t1 t2]) .then
10 y=test0(x);
11 elseif or([t1 t2]) .then
12 y=test1(x);
13 else
14 y=test2(x);
15 end,
16 plot2d(x,y,-3)
17 set("current_figure",1)
18 xset('mark-size',-2)
19 plot2d(x,y,-3)
20 set("current_figure",2)
21 xset('mark-size',-4)
22 plot2d(x,y,-3)
23 set("current_figure",3)
24 xset('mark-size',-5)
25 plot2d(x,y,-3)
```



