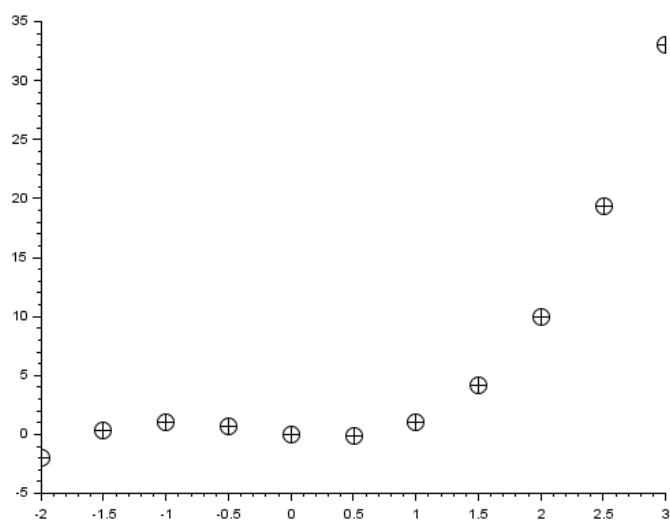
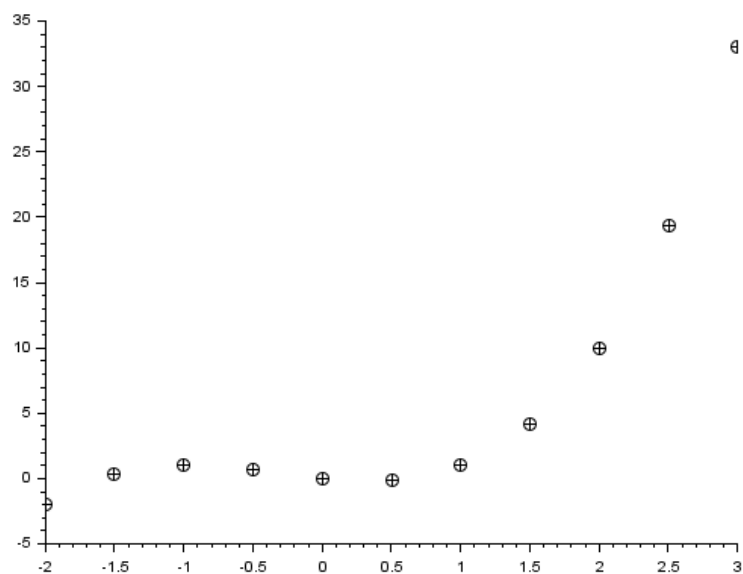
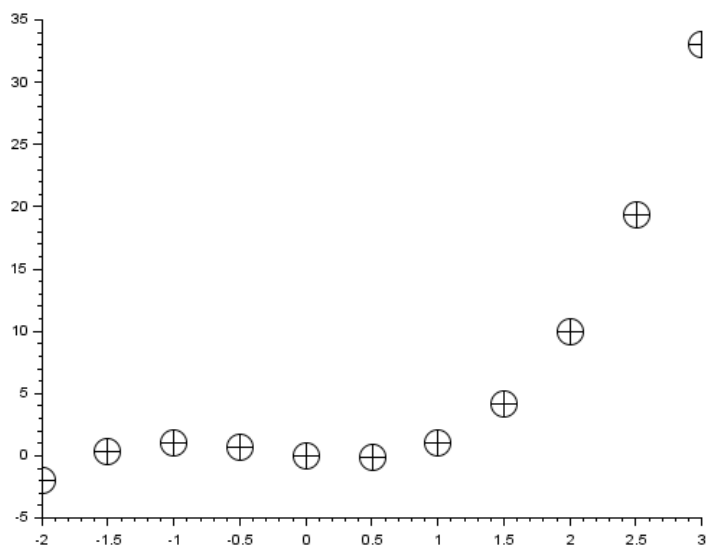
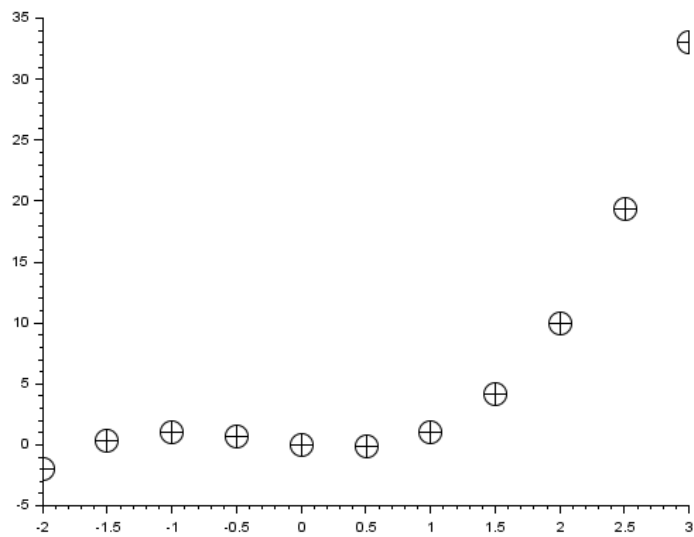


1) A função fornecida no código da lista A, avaliada em $\frac{\pi}{2}$, é igual a 3.6078962.

2) Os gráficos gerados pelo código fornecido foram:





Código utilizado:

1)

```
function [y]=teste(x)
y=x+x^2+sin(x*2*pi);
endfunction
teste(0.5*pi)
```

2)

```
deff(' [y]=test0(x) ', 'y=x+x^2+sin(x*2*%pi) ')\ndeff(' [y]=test1(x) ', 'y=-x+x^2+x^3')\ndeff(' [y]=test2(x) ', 'y=sqrt(x) ')\nx=-2:0.5:3;\na=1;\nb=0;\nt1=(a==1);\nt2=(b>0.5);\nif and([t1 t2]) then\ny=test0(x);\nelseif or([t1 t2]) then\ny=test1(x);\nelse\ny=test2(x);\nend,\nplot2d(x,y,-3)\nset("current_figure",1)\nxset('mark size', 2)\nplot2d(x,y,-3)\nset("current_figure",2)\nxset('mark size', 4)\nplot2d(x,y,-3)\nset("current_figure",3)\nxset('mark size', 5)\nplot2d(x,y,-3)
```