

# Lista A      PME3380

Nome: Yuri Lopes Pamplona

NºUSP: 10853498

1) Arquivo teste

Código:

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

Resposta: 3.6078962, sendo  $x = 0.5 \cdot \pi$

2) Teste 2:

Código:

```
deff([y]=test0(x),'y=x+x^2+sin(x*2*%pi)')
deff([y]=test1(x),'y=-x+x^2+x^3')
deff([y]=test2(x),'y=sqrt(x)')
x=-2:0.5:3;
a=1;
b=0;
t1=(a==1);
t2=(b>0.5);
if and([t1 t2]) then
y=test0(x);
elseif or([t1 t2]) then
y=test1(x);
else
y=test2(x);
end,
plot2d(x,y,-3)
set("current_figure",1)
xset('mark size', 2)
plot2d(x,y,-3)
set("current_figure",2)
xset('mark size', 4)
plot2d(x,y,-3)
set("current_figure",3)
xset('mark size', 5)
plot2d(x,y,-3)
```

Gráficos gerados:

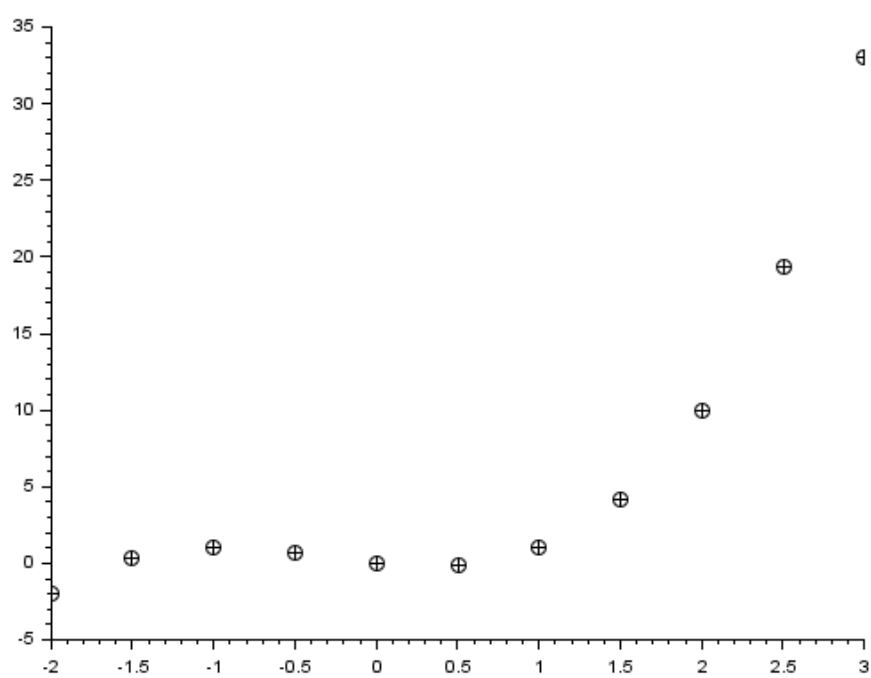


Figure 1: Gráfico 1

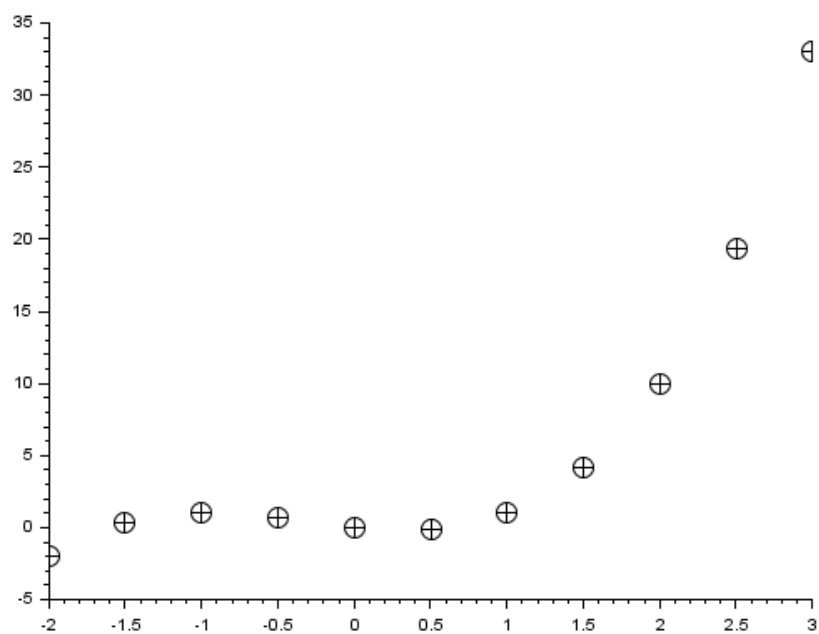


Figure 2: Gráfico 2

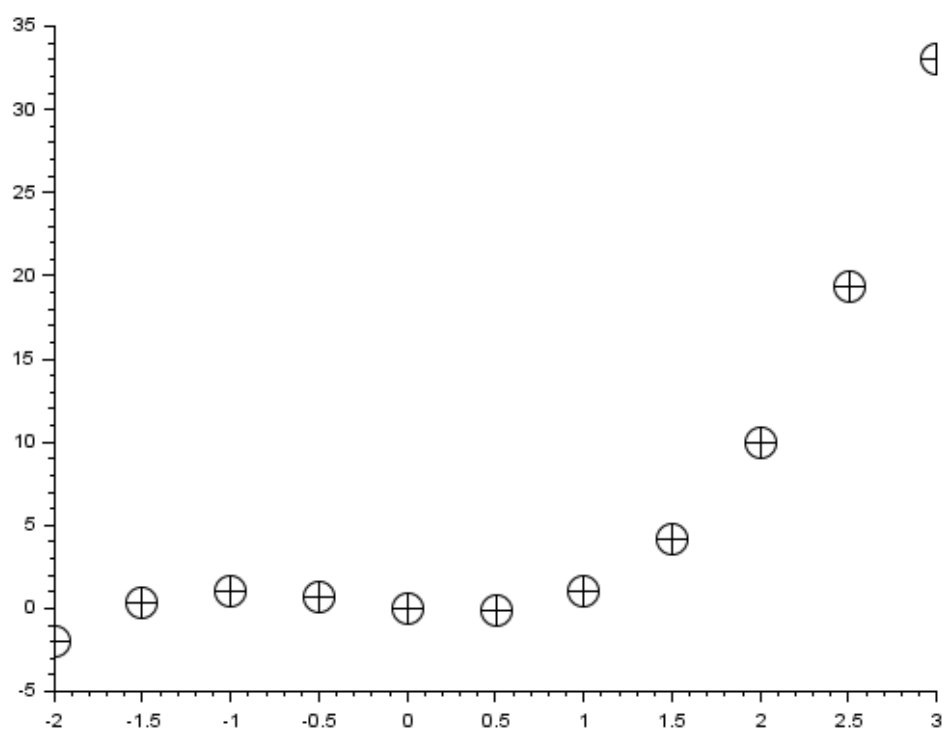


Figure 3:Gráfico 3

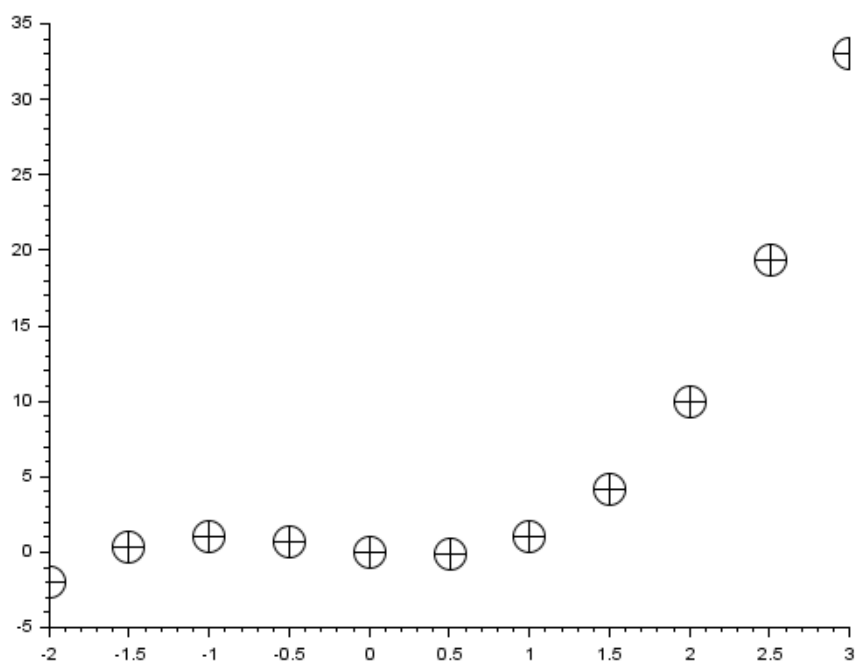


Figure 4:Gráfico 4

