Comunicación Electrónica

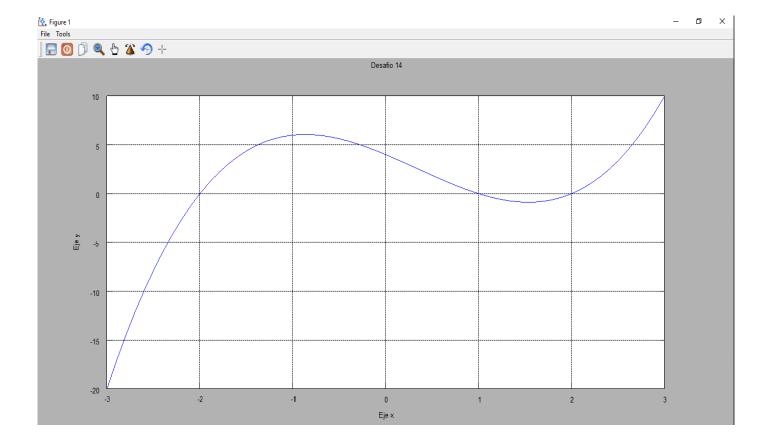
Alumno: Bargas, Santiago

Desafío 14

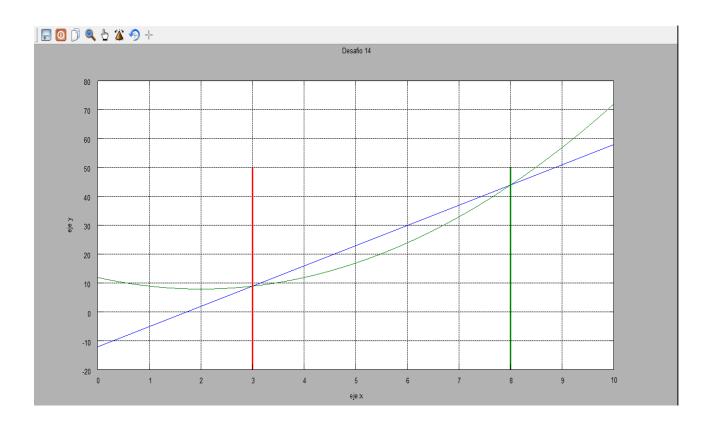
DNI: 43.538.588

Tema: FreeMath

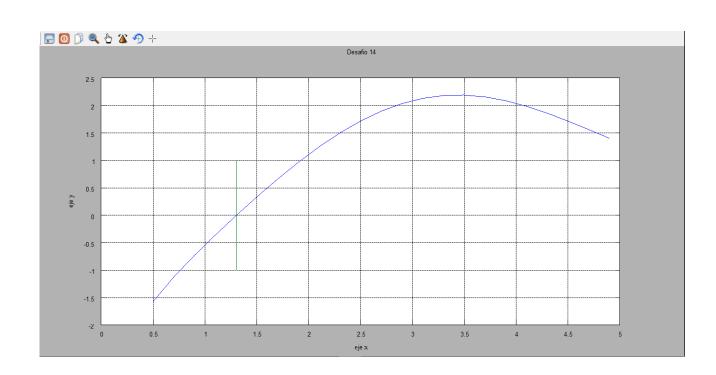
- --> pol3=[1 -1 -4 4]
- pol3 = 1 -1 -4 4
- --> x=-3:0.1:+3
- --> y=polyval(pol3,x)
- --> T=[x'y']
- --> plot(x,y)
- --> grid on
- --> roots(pol3)
- ans =
 - -2.0000
 - 2.0000
 - 1.0000
- --> hold on
- --> xlabel('Eje x')
- --> ylabel('Eje y')
- --> title('Desafio 14')
- --> polyval(pol3,0)
- ans = 4
- --> polyval(pol3,2)
- ans = 0



```
--> r1=[0 7 -12]
r1 =
 0 7-12
--> p2=[1 -4 12]
p2 =
 1 -4 12
--> poli= p2 - r1
poli =
 1 - 11 24
--> roots(poli)
ans =
8
 3
--> x=0:0.2:10
--> yr1=polyval(r1,x)
--> yp2=polyval(p2,x)
--> plot(x,yr1,x,yp2)
--> grid on
--> hold on
--> plot([3 3],[-20 50],'r','LineWidth',3)
--> plot([8 8],[-20 50],'g','LineWidth',3)
--> xlabel('eje x')
--> ylabel('eje y')
--> title('Desafio 14')
```



```
--> f1=inline('log(x)-cos(x)')
f1 =
 inline function object
 f(x) = \log(x) - \cos(x)
--> x=0.5:0.2:5
--> y=f1(x)
--> plot(x,y)
--> grid on
--> hold on
--> raiz=fzero(f1,1.2)
raiz =
  1.3030
--> plot([1.3030 1.3030],[-1 1],'g','LineWidht',3)
--> axis([0 5 -2 2.5])
--> xlabel('eje x')
--> ylabel('eje y')
--> title('Desafio 14')
```



> %Por el metodo de eliminacion
> r1=[2.5 -1]
r1 =
2.5000 -1.0000
> r2=[-0.5 1]
r2 =
-0.5000 1.0000
> resta=r1-r2
resta =
3 -2
> raiz=roots(resta)
raiz =
0.6667
> y=polyval(r1,raiz)
y =
0.6667
> %Inversion matricial:
> A=[5 -2;1 2]
A =
5 -2
1 2
> c=[2 2]'
c =
2
2

0.6667

0.6667

--> %Metodo Grafico:

--> grid on

--> hold on

--> plot([0.6667 0.6667],[-5 5])

--> title('Desafio 14')

