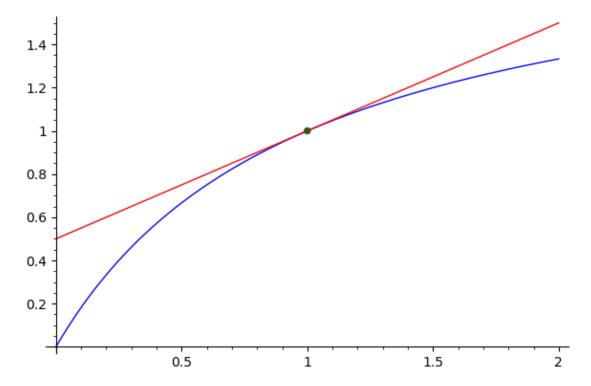
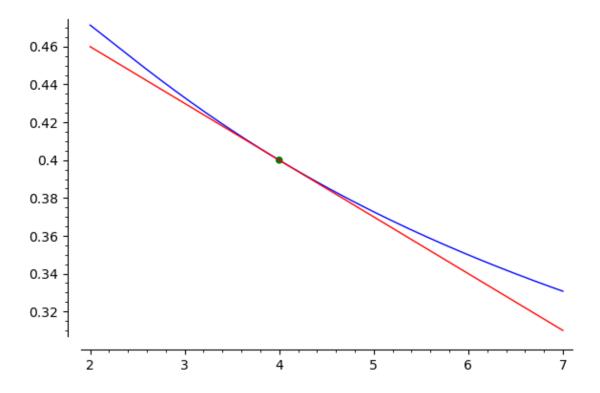
## Laboratorul 2

## October 12, 2023

```
[9]: x=var('x')
f1(x) = 2*x/(x+1)
t1(x) = 1/2*x+1/2
p1=plot(f1,0,2)
p2=plot(t1,(0,2),color='red')
p3=point((1,1),color='green',size=30)
(p1+p2+p3).show()
```



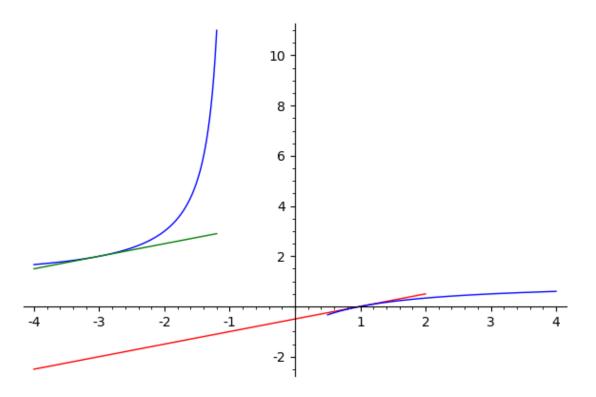
```
[12]: f2(x)=sqrt(x)/(x+1)
    t2(x)=-3*x/100+13/25
    q1 = plot(f2,2,7)
    q2 = plot(t2,2,7,color='red')
    q3 = point((4,2/5),color='green',size=30)
    (q1+q2+q3).show()
```

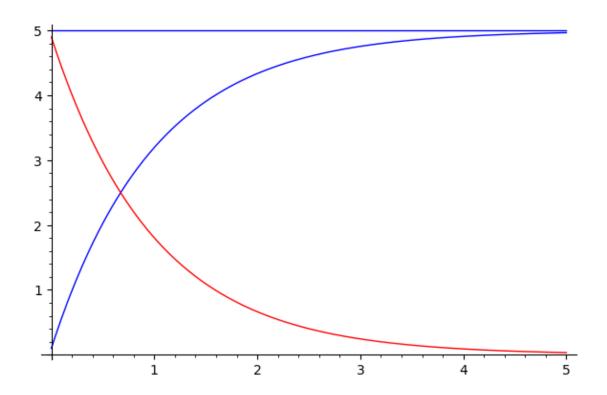


```
[13]: 820*0.14

[13]: 114.800000000000

[22]: f3(x)=(x-1)/(x+1)
    h3=f3.diff()
    t3(x)=h3(1)*(x-1)+f3(1)
    t4(x)=h3(-3)*(x+3)+f3(-3)
    r1=plot(f3,-4,-1.2)
    r2=plot(t3,-4,2,color='red')
    r3=plot(t4,-4,-1.2,color='green')
    r4=plot(f3,0.5,4)
    (r1+r2+r3+r4).show()
```





[]: