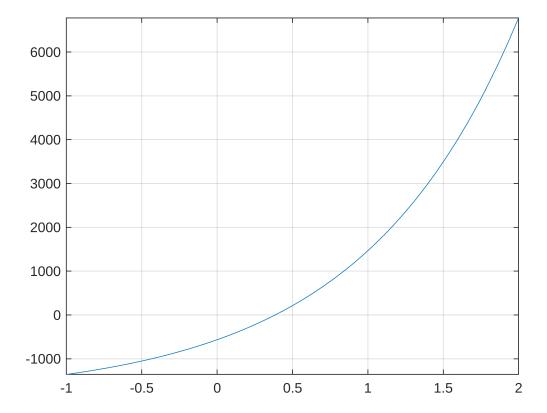
```
syms lambda
N(lambda) = 1000*exp(lambda)+435/lambda*(exp(lambda)-1);
Ec(lambda)=N-2000
```

Ec(lambda) = $1000 e^{\lambda} + \frac{435 (e^{\lambda} - 1)}{\lambda} - 2000$

```
fplot(Ec);
grid on
xlim([-1 2])
```



```
%Entrada
x0 = -0.5;
x1=1;
errort=1e-5
```

errort = 1.0000e-05

$$Ec(x0)*Ec(x1)$$

ans = $\left(130 e^{-\frac{1}{2}} - 1130\right) (1435 e - 2435)$

```
%Primer paso
for i = 1:n
x2=(x0+x1)/2
%Segundo paso
if Ec(x0)*Ec(x2)<0
    x0 = x0;
    x1 = x2;
else
    x0 = x2
    x1 = x1;
    end
    error = abs(x0 - x1);
    if error < errort</pre>
        break
    end
end
x2 =
0.2500
x0 =
0.2500
x2 =
0.6250
x2 =
0.4375
x2 =
0.3438
x0 =
0.3438
x2 =
0.3906
x1
x1 =
0.3906
x2
x2 =
0.3906
```

x0

x0 =0.3438