
```

% Problema a Tema 2
f=@(x)sin(x)-exp(-x);
x=linspace(0,10,100);
y=f(x);
plot(x,y,'Linewidth',3)
hold on
grid on
[interval]=cautainterval(f,0,10,50)
for i=1: size(interval,1)
    x1=interval(i,1)
    x2=interval(i,2)
    fill([x1 x1 x2 x2 x1],[-0.3,0.3,0.3,-0.3,-0.3],[0.7 0.3 0.9 0.5
0.7])
    r(i)=met_bis(f,x1,x2,10^(-3));
end
plot(r,f(r),'o','Markerfacecolor','y','Markersize',10)

```

```

x =

```

```

Columns 1 through 7

```

```

         0      0.2000      0.4000      0.6000      0.8000      1.0000      1.2000

```

```

Columns 8 through 14

```

```

    1.4000    1.6000    1.8000    2.0000    2.2000    2.4000    2.6000

```

```

Columns 15 through 21

```

```

    2.8000    3.0000    3.2000    3.4000    3.6000    3.8000    4.0000

```

```

Columns 22 through 28

```

```

    4.2000    4.4000    4.6000    4.8000    5.0000    5.2000    5.4000

```

```

Columns 29 through 35

```

```

    5.6000    5.8000    6.0000    6.2000    6.4000    6.6000    6.8000

```

```

Columns 36 through 42

```

```

    7.0000    7.2000    7.4000    7.6000    7.8000    8.0000    8.2000

```

```

Columns 43 through 49

```

```

    8.4000    8.6000    8.8000    9.0000    9.2000    9.4000    9.6000

```

```

Columns 50 through 51

```

```

    9.8000   10.0000

```

```
interval =  
  
    0.4000    0.6000  
    3.0000    3.2000  
    6.2000    6.4000  
    9.4000    9.6000
```

```
x1 =  
  
    0.4000
```

```
x2 =  
  
    0.6000
```

```
x1 =  
  
    3
```

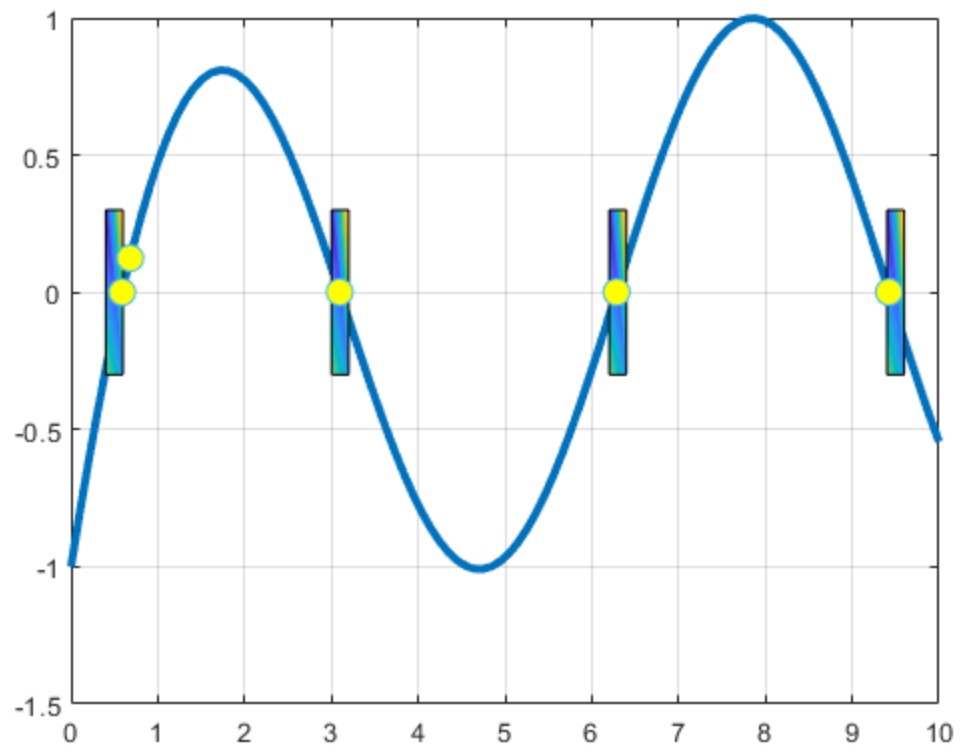
```
x2 =  
  
    3.2000
```

```
x1 =  
  
    6.2000
```

```
x2 =  
  
    6.4000
```

```
x1 =  
  
    9.4000
```

```
x2 =  
  
    9.6000
```



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