
```

% Problema e 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)=MetPozFalse(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
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Columns 8 through 14

1.4000	1.6000	1.8000	2.0000	2.2000	2.4000	2.6000
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Columns 15 through 21

2.8000	3.0000	3.2000	3.4000	3.6000	3.8000	4.0000
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Columns 22 through 28

4.2000	4.4000	4.6000	4.8000	5.0000	5.2000	5.4000
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Columns 29 through 35

5.6000	5.8000	6.0000	6.2000	6.4000	6.6000	6.8000
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Columns 36 through 42

7.0000	7.2000	7.4000	7.6000	7.8000	8.0000	8.2000
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Columns 43 through 49

8.4000	8.6000	8.8000	9.0000	9.2000	9.4000	9.6000
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Columns 50 through 51

9.8000	10.0000
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```
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
```

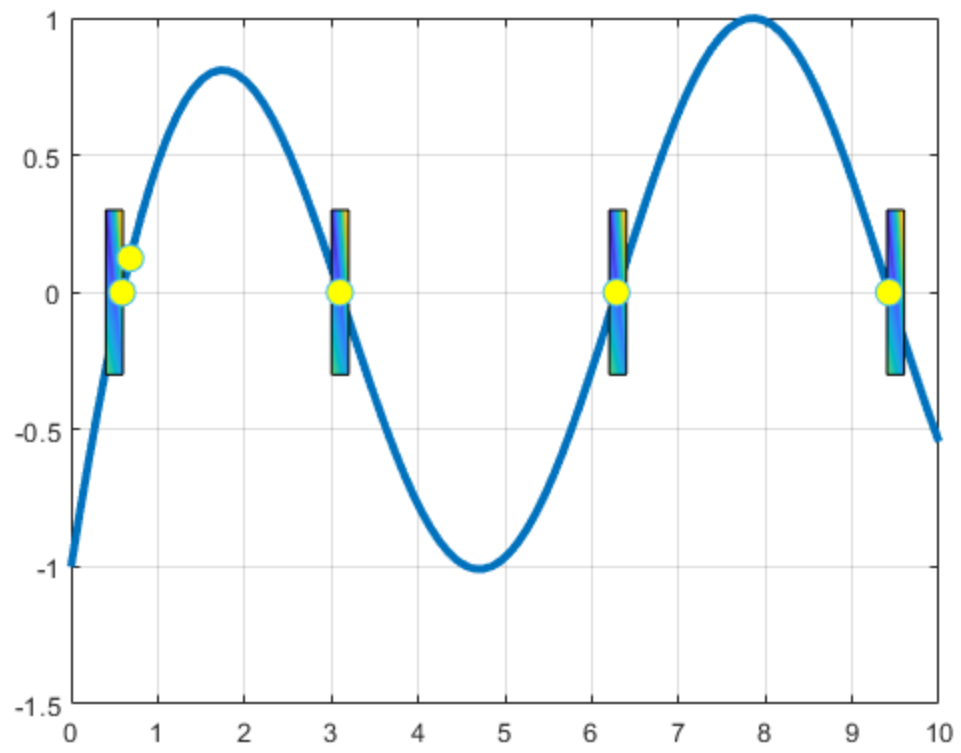
```
x2 =  
  
    3.2000
```

```
x1 =  
  
    6.2000
```

```
x2 =  
  
    6.4000
```

```
x1 =  
  
    9.4000
```

```
x2 =  
  
    9.6000
```



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