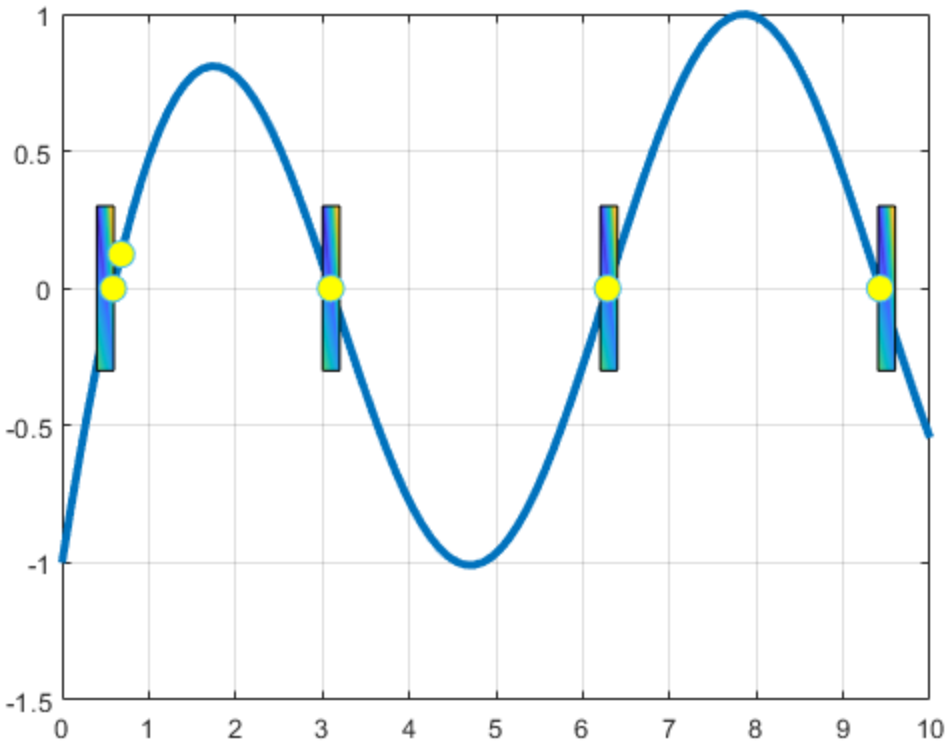
```
%pct d tema2
f=@(x)sin(x)-exp(-x);
x=linspace(0,10,100);
y=f(x);
plot(x,y,'Linewidth',3)
hold on
grid on
[interval]=cautainterval(f,0,10,50)
for i=1: size(interval,1)
    x1=interval(i,1)
    x2=interval(i,2)
    fill([x1 x1 x2 x2 x1],[-0.3,0.3,0.3,-0.3,-0.3],[0.7 0.3 0.9 0.5
 0.7])
    r(i)=MetSecantei(f,x1,x2,x1,x2,10^(-3));
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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