
```
ccrit = secant(@(c) maxeigenvalue(c,20),10,50,0.001);
```

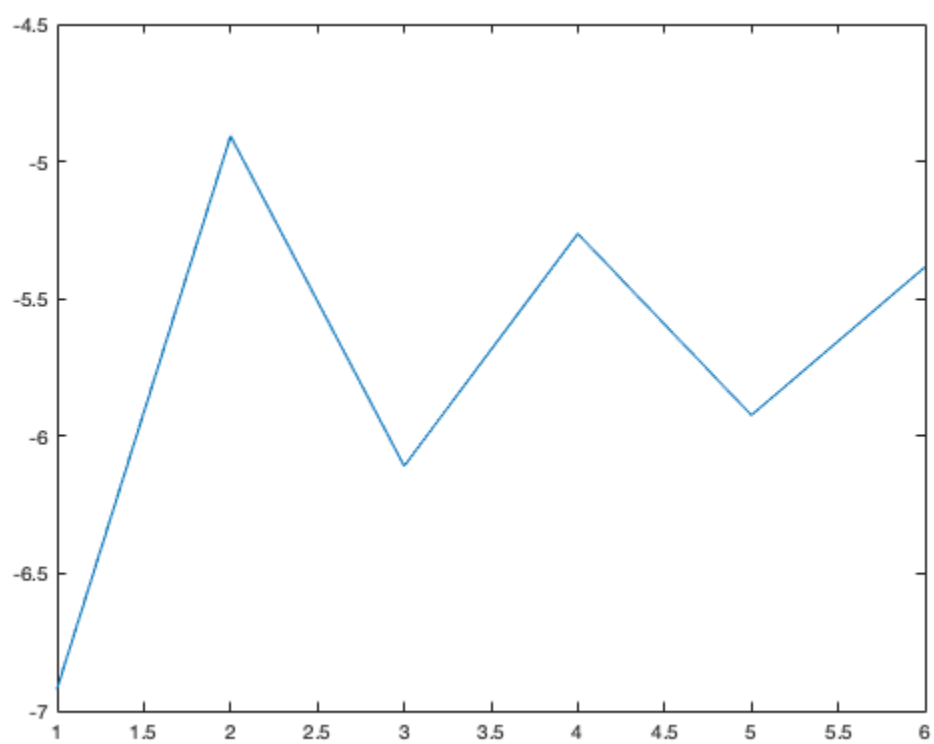
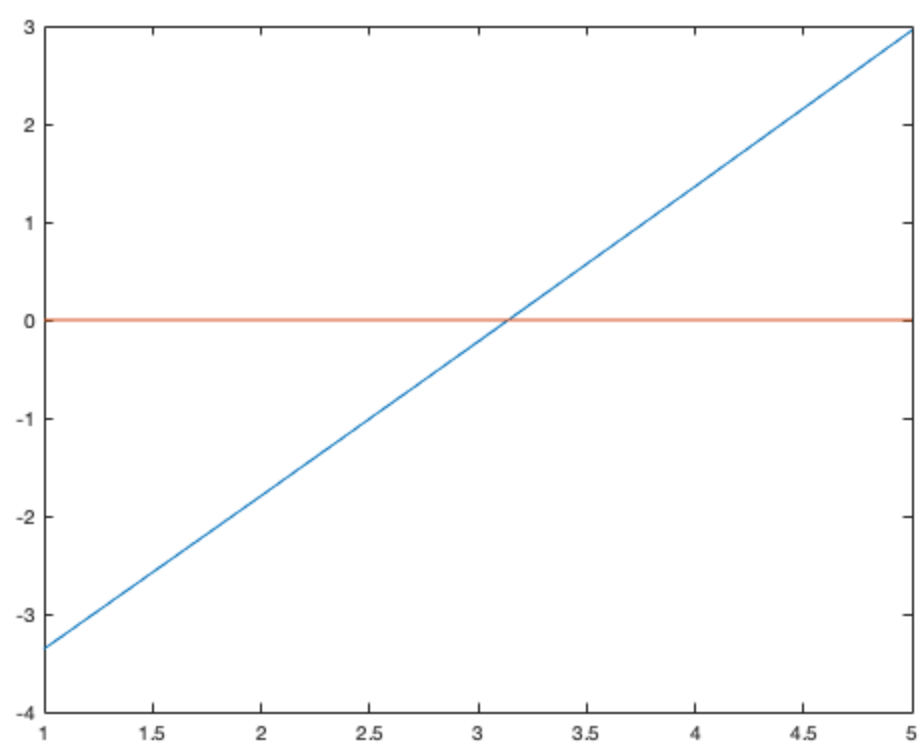
```
disp("C_crit for n=20: ");  
disp(ccrit);
```

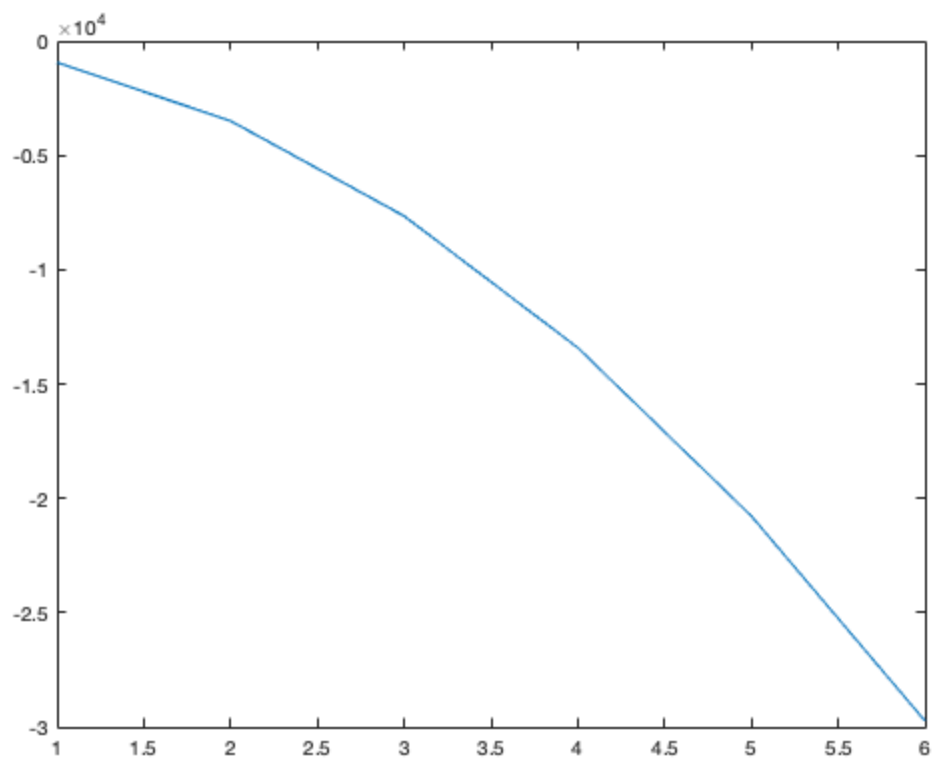
```
cvals = [22 24 26 28 30];  
maxeigs = [];  
for a = 1:5  
    c = cvals(a);  
    maxeigs = [maxeigs maxeigenvalue(c,20)];  
end  
plot(maxeigs);  
hold on;  
fplot(@(x) 0, [1 5]);
```

```
nvals = [10 20 30 40 50 60];  
maxeigs = [];  
mineigs = [];  
for a = 1:6  
    n = nvals(a);  
    maxeigs = [maxeigs maxeigenvalue(20,n)];  
    mineigs = [mineigs mineigenvalue(20,n)];  
end  
figure;  
plot(maxeigs);  
figure;  
plot(mineigs);
```

```
C_crit for n=20:  
    26.2811
```

Warning: Function behaves unexpectedly on array inputs. To improve performance, properly vectorize your function to return an output with the same size and shape as the input arguments.





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