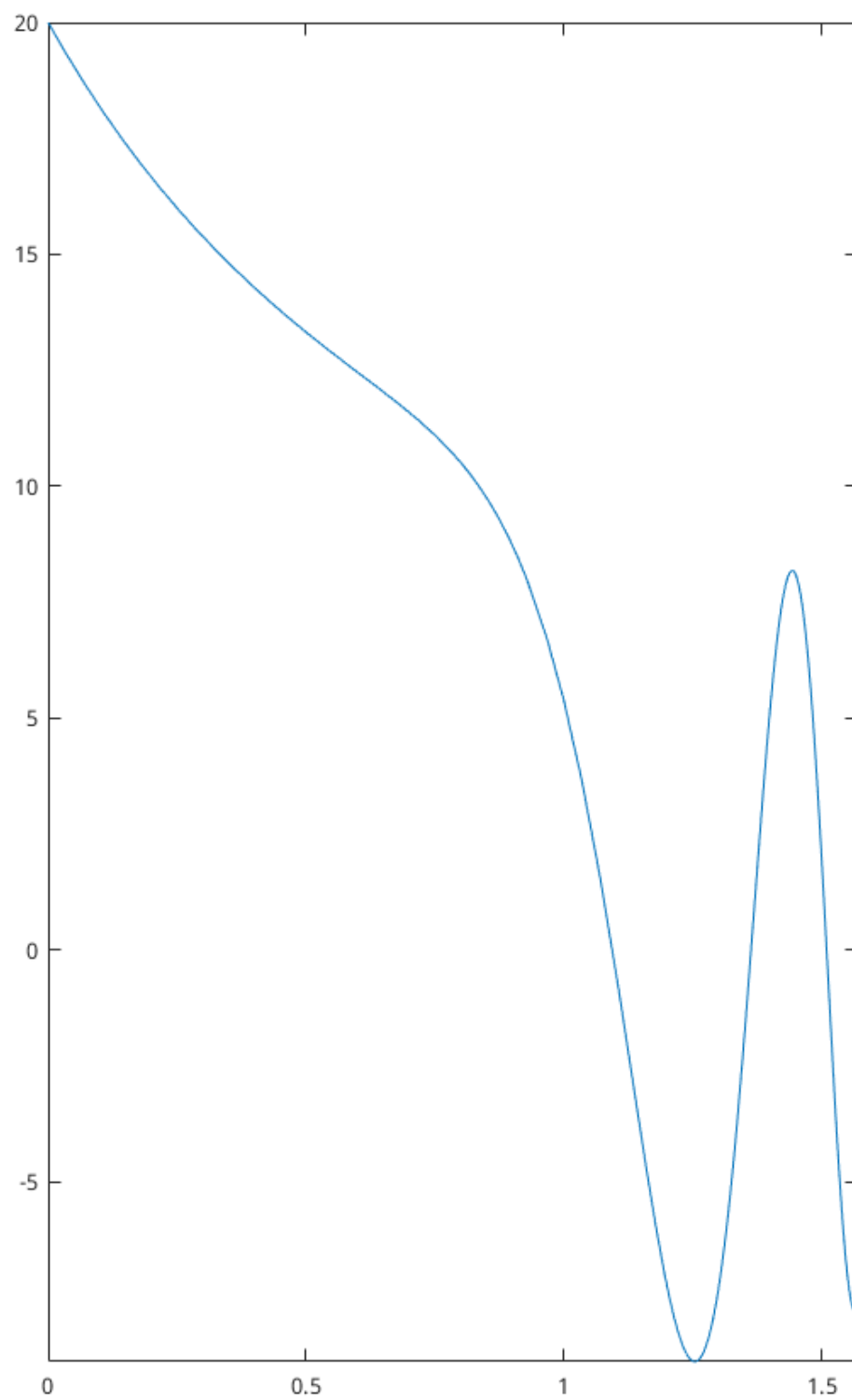

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```
clear,clc
f = @(x) 20*cos(x.^5)./(x+1);
fplot(f,[0,pi/2])
```



Incremental search

```
[nb,xb] = incsearch(f,0,pi/2)
```

```
nb =
```

```
3
```

```
xb =
```

```
1.0899    1.1220  
1.3464    1.3785  
1.5067    1.5387
```

Bisection method

```
xr1 = bisection(f,0,1.2)  
xr2 = bisection(f,1.2,1.4)  
xr3 = bisection(f,1.4,pi/2)
```

```
xr1 =
```

```
1.0945
```

```
xr2 =
```

```
1.3635
```

```
xr3 =
```

```
1.5101
```

MATLAB's fzero

```
r1 = fzero(f,1)  
r2 = fzero(f,1.3)  
r3 = fzero(f,pi/2)
```

```
r1 =
```

```
1.0945
```

```
r2 =
```

1.3635

$r_3 =$

1.5101

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