

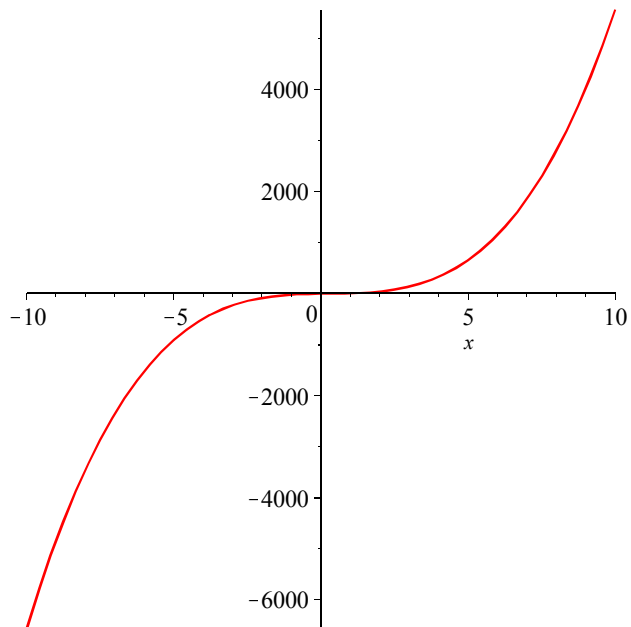
```
> # Prof. Dr. Serkan Dağ  
# ME 310 Numerical Methods  
# File 3.1  
# Graphical method
```

```
> restart ;
```

```
> f := 6·x3 - 5·x2 + 7·x - 2;
```

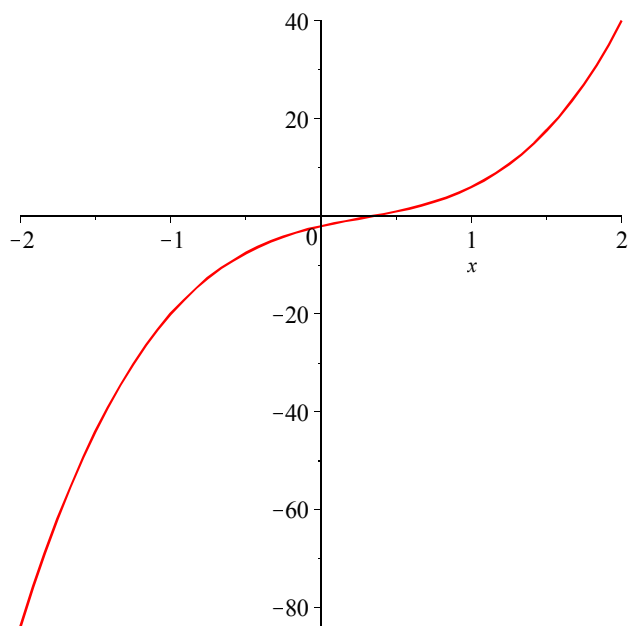
$$f := 6x^3 - 5x^2 + 7x - 2$$

```
> plot(f, x);
```

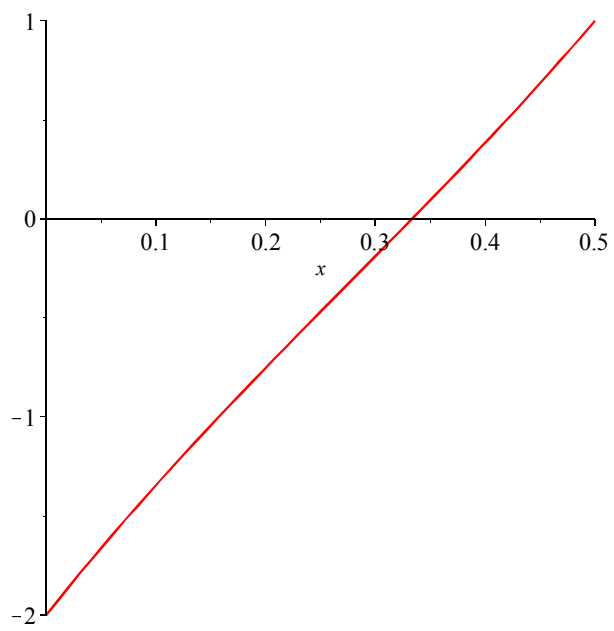


```
> plot(f, x=-2..2);
```

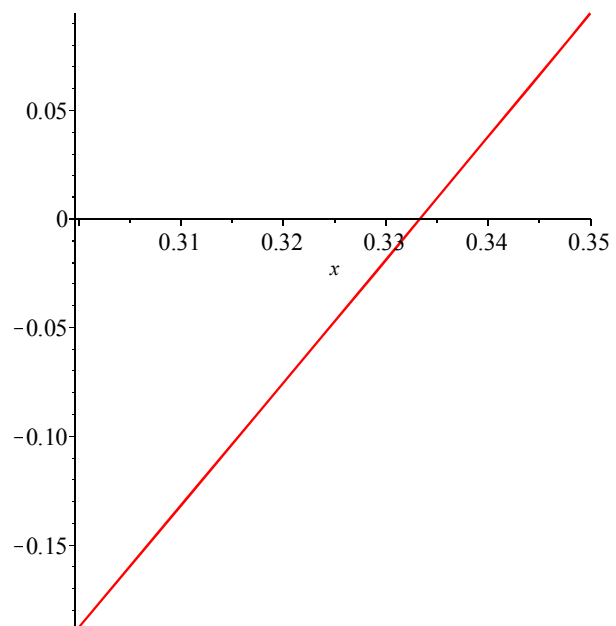
(1)



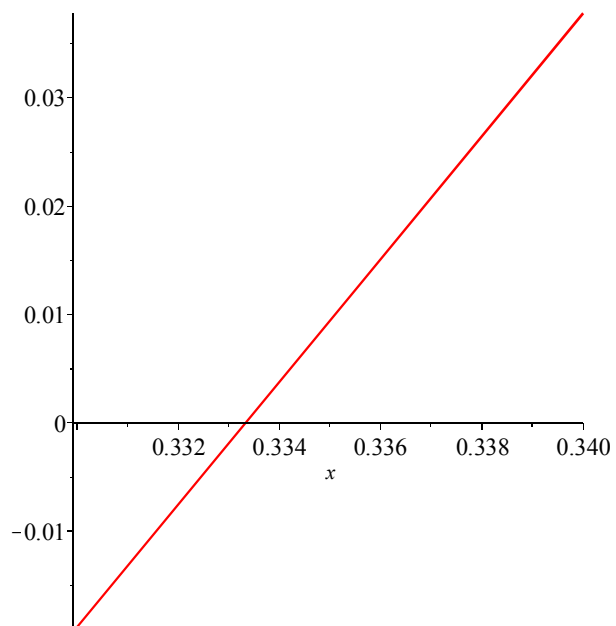
```
=  
> plot(f, x=0 ..0.5);
```



```
=  
> plot(f, x = 0.3 .. 0.35);
```



```
=  
> plot(f, x = 0.33 .. 0.34);
```



```
> subs(x=0.3333,f);
```

-0.000188888

(2)

```
> solve(f=0,x);
```

$\frac{1}{3}, \frac{1}{4} + \frac{1}{4} \text{I}\sqrt{15}, \frac{1}{4} - \frac{1}{4} \text{I}\sqrt{15}$

(3)

```
>
```