```
> f:=1/(1-x);
```

$$f := \frac{1}{1-x}$$

```
> s_2:=1+x; s_4:=1+x+x^2+x^3; s_8:=1+x+x^2+x^3+x^4+x^5+x^6+x^7;
  s_15:=1+x+x^2+x^3+x^4+x^5+x^6+x^7+x^8+x^9+x^10+x^11+x^12+x^13+x^14
  ;
```

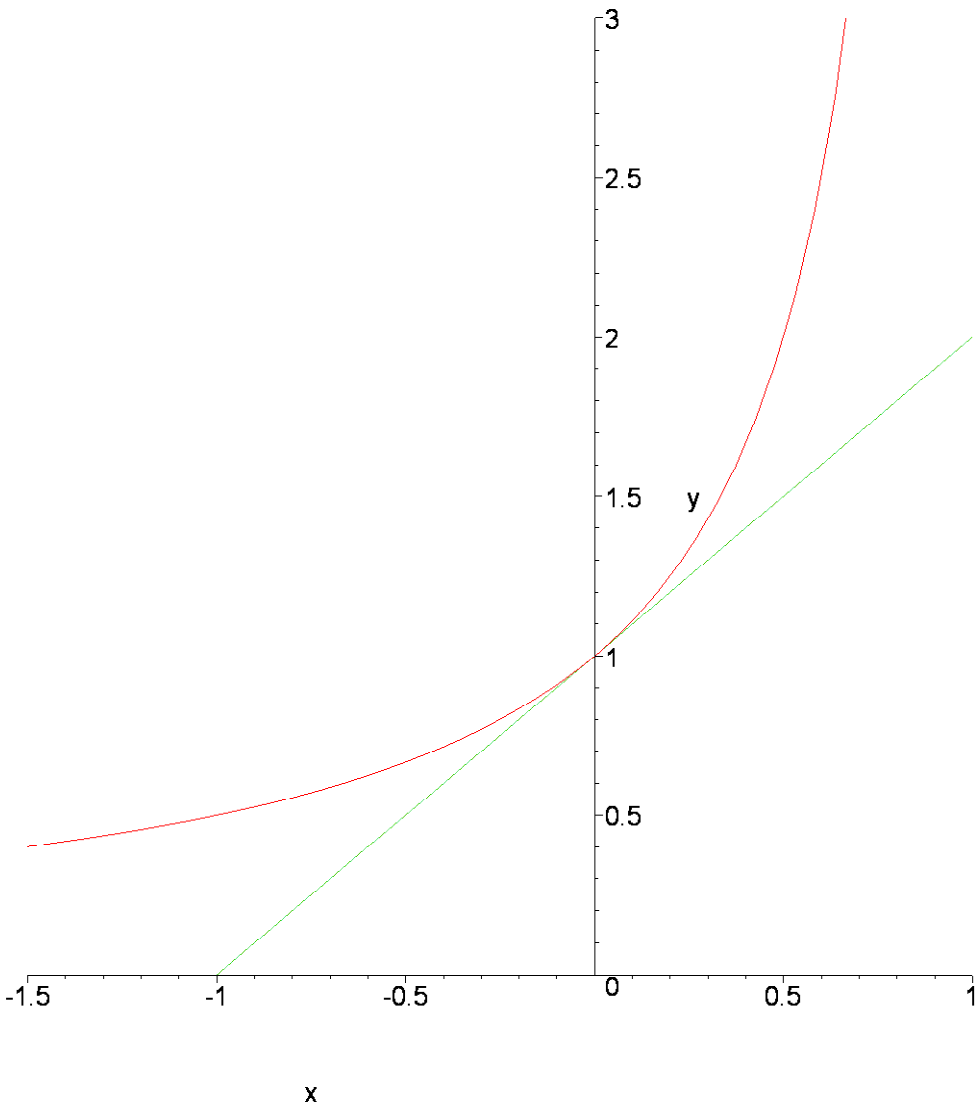
$$s\_2 := 1 + x$$

$$s\_4 := 1 + x + x^2 + x^3$$

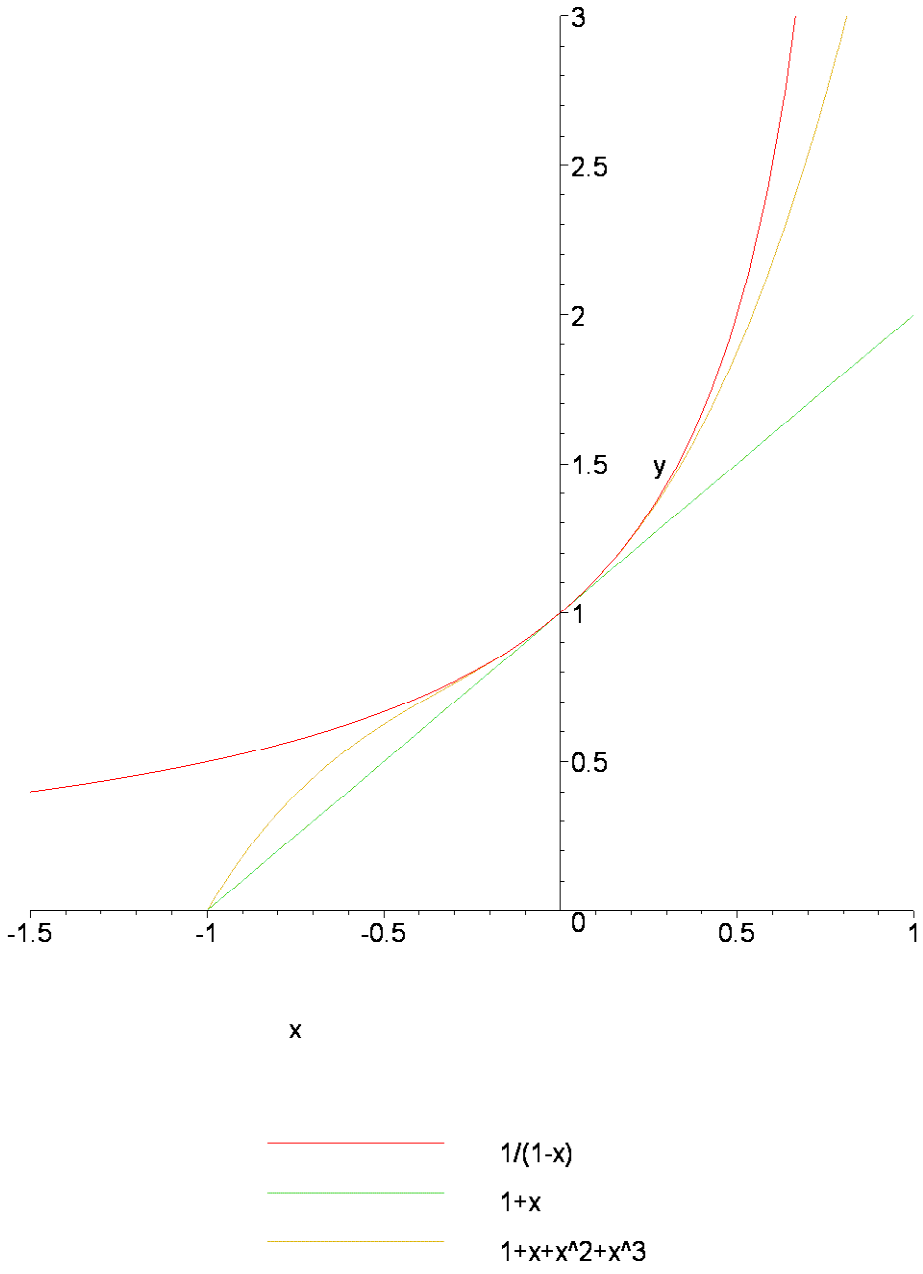
$$s\_8 := 1 + x + x^2 + x^3 + x^4 + x^5 + x^6 + x^7$$

$$s\_15 := 1 + x + x^2 + x^3 + x^4 + x^5 + x^6 + x^7 + x^8 + x^9 + x^{10} + x^{11} + x^{12} + x^{13} + x^{14}$$

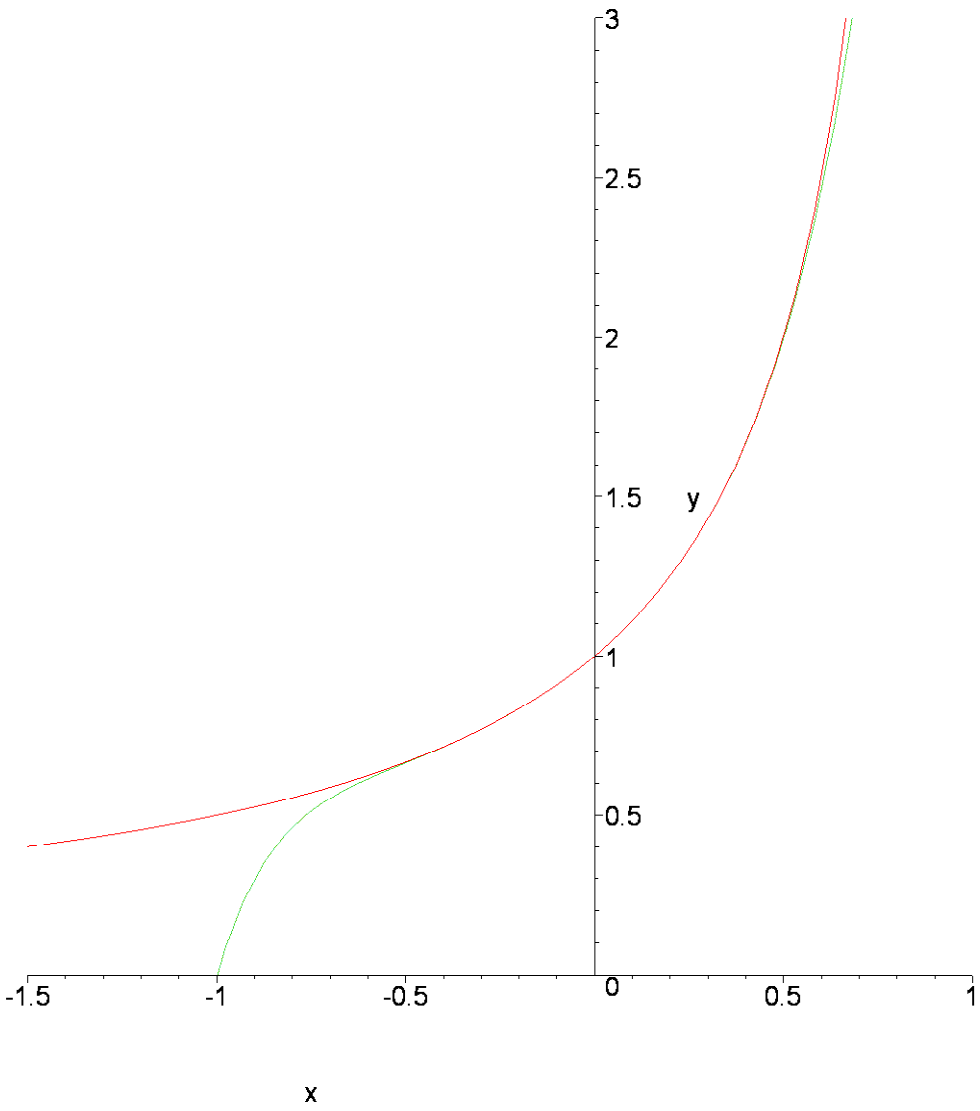
```
> plot([f,s_2],x=-1.5..1,y=0..3,legend=[f,s_2]);
```



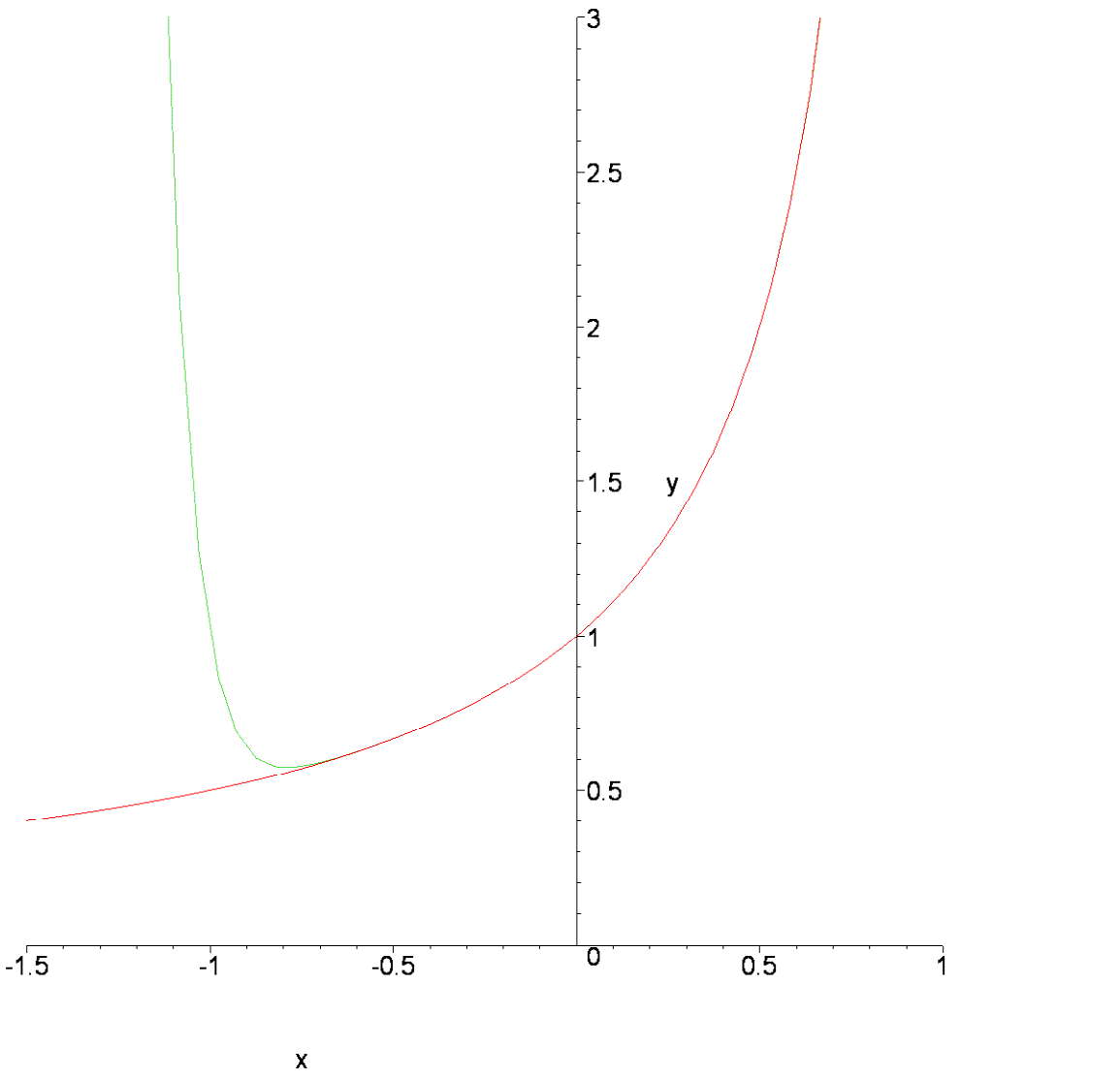

```
> plot([f,s_2,s_4],x=-1.5..1,y=0..3,legend=[f,s_2,s_4]);
```



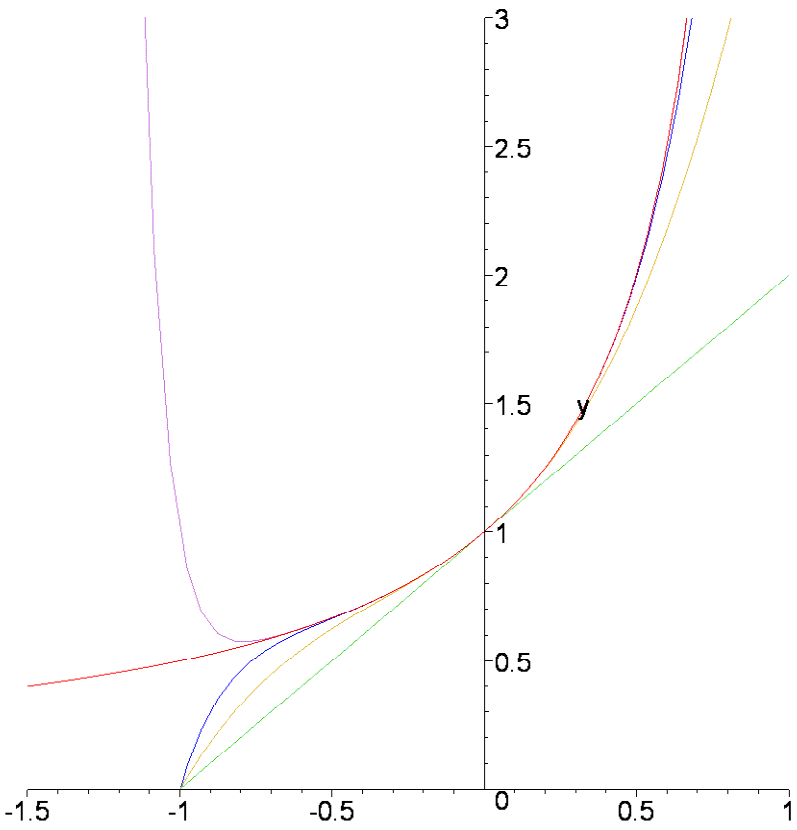

```
> plot([f,s_8],x=-1.5..1,y=0..3,legend=[f,s_8]);
```




```
> plot([f,s_15],x=-1.5..1,y=0..3,legend=[f,s_15]);
```




```
> plot([f,s_2,s_4,s_8,s_15],x=-1.5..1,y=0..3,legend=[f,s_2,s_4,s_8,s
  _15]);
```


3
2.5
2
1.5
y
1
0.5
0
-1.5
-1
-0.5
0.5
1
x
1/(1-x)
1+x
1+x+x^2+x^3
1+x+x^2+x^3+x^4+x^5+x^6+x^7
1+x+x^2+x^3+x^4+x^5+x^6+x^7+x^8+x^9+x^10+x^11+x

>