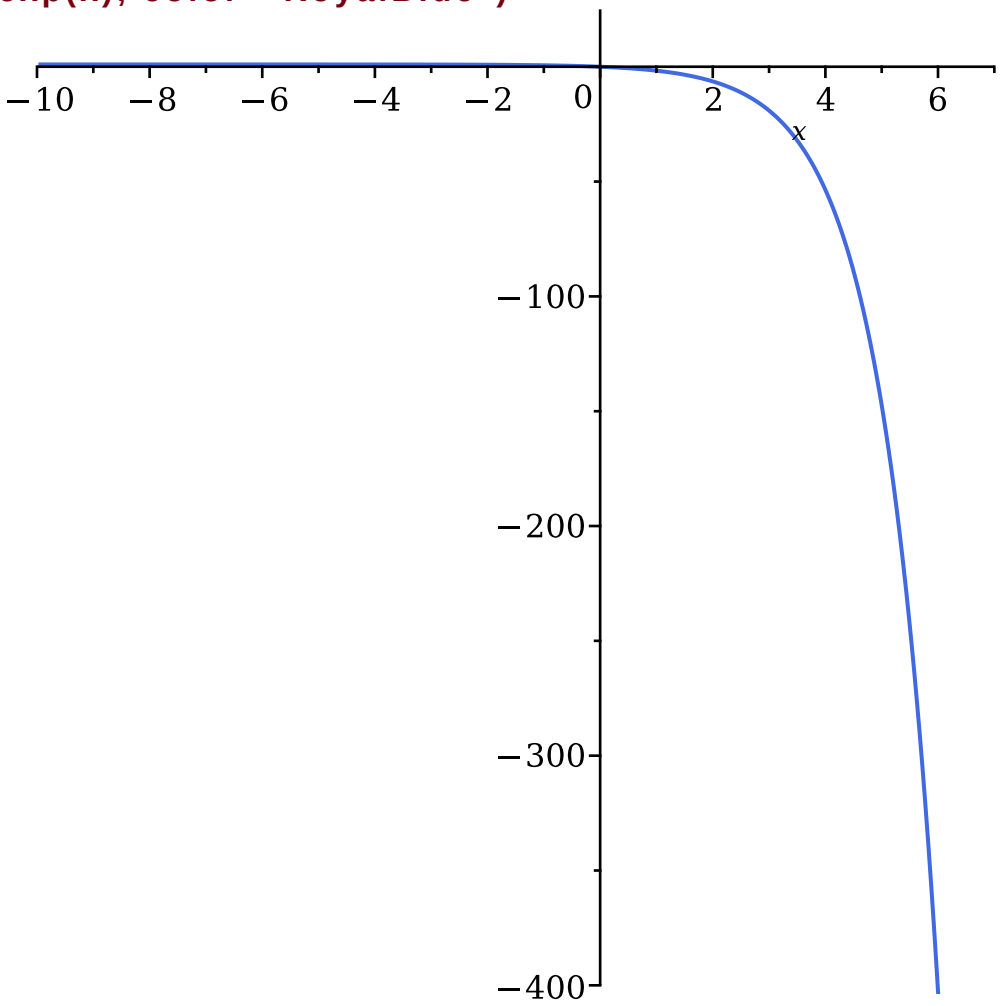
```
> restart
> with(plots):
```

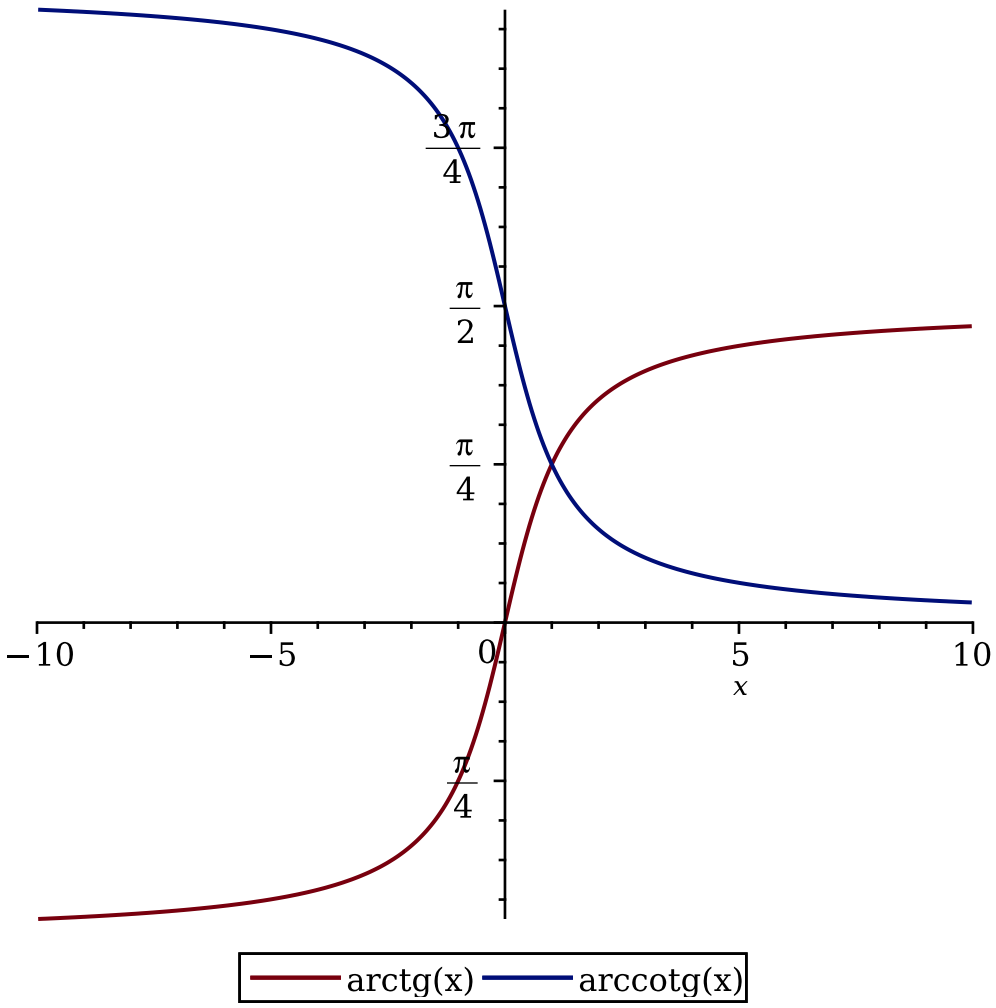
Ukol 1)

```
> plot(1-exp(x), color="RoyalBlue")
```



Ukol 2)

```
> plot([arctan(x), arccot(x)], tickmarks=[default, piticks],
  legend=["arctg(x)", "arccotg(x)"])
```



Ukol 3)

```
> v := piecewise(
  x<=-1, -1,
  x>-1 and x<3, x,
  x>=3 and x<=6, 9/x
  ) :
```

```
> eval(subs(x=-2, v))
```

$$-1 \quad (1)$$

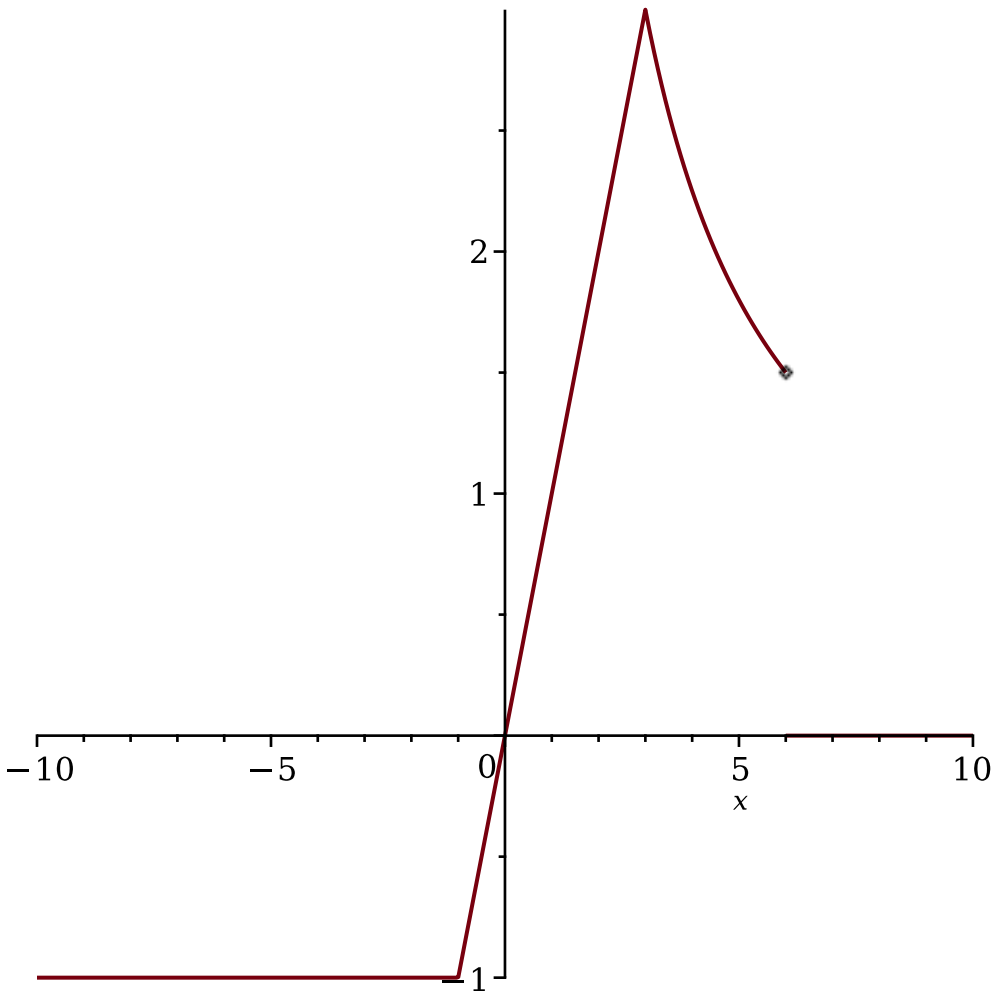
```
> eval(subs(x=1,v))
```

$$1 \quad (2)$$

```
> eval(subs(x=4, v))
```

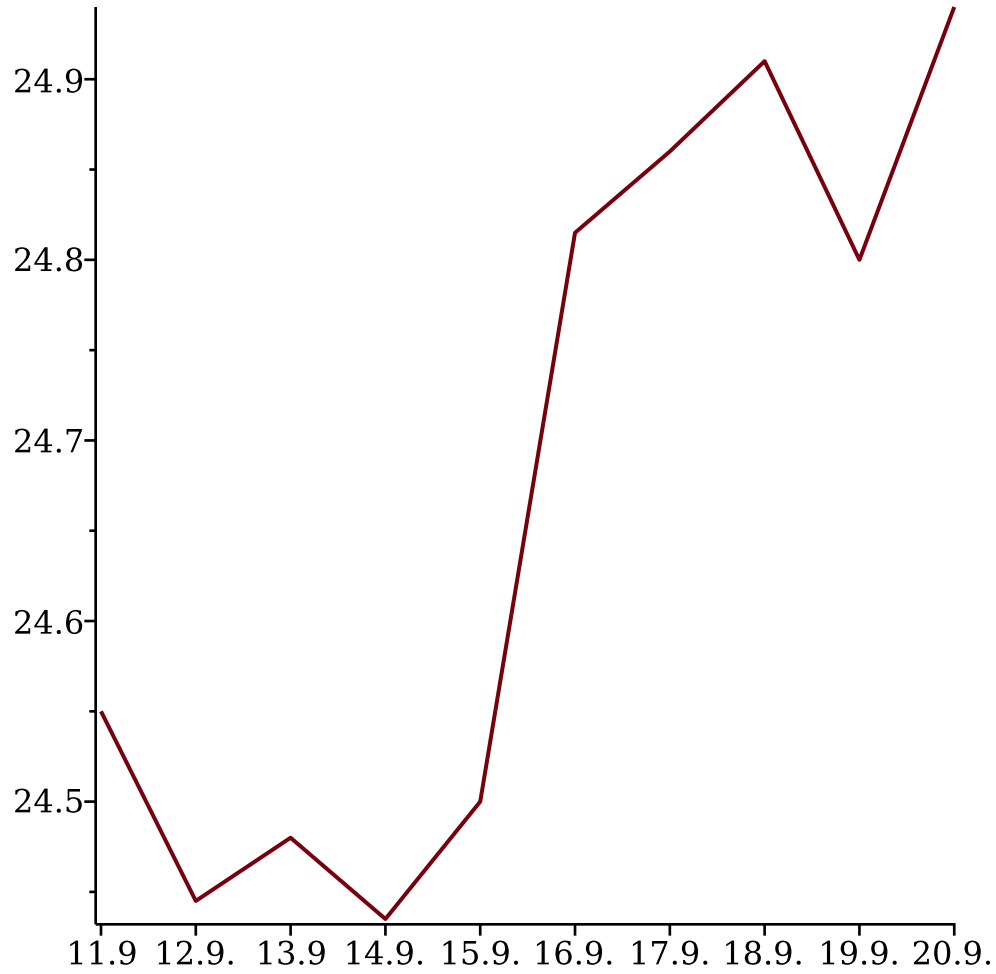
$$\frac{9}{4} \quad (3)$$

```
> plot(v, discont=true)
```



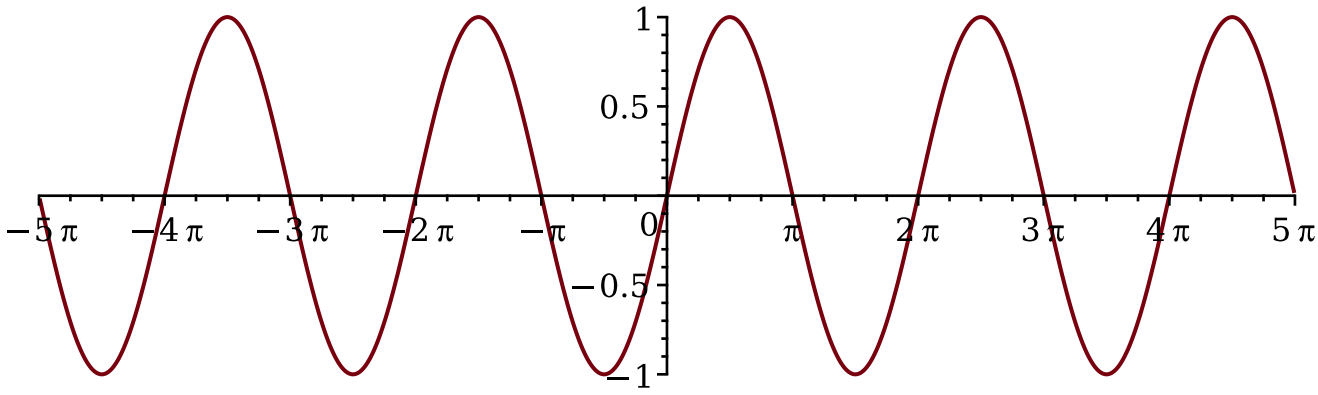
Ukol 4)

```
> den := [seq(1..10, 1)]:
> kurz := [24.55, 24.445, 24.48, 24.435, 24.5, 24.815, 24.86,
  24.91, 24.8, 24.94]:
> plot(den, kurz, tickmarks = [[1 = "11.9", 2 = "12.9.", 3 =
  "13.9", 4="14.9.", 5="15.9.", 6="16.9.", 7="17.9.", 8 = "18.9.",
  9="19.9.", 10="20.9."], default])
```



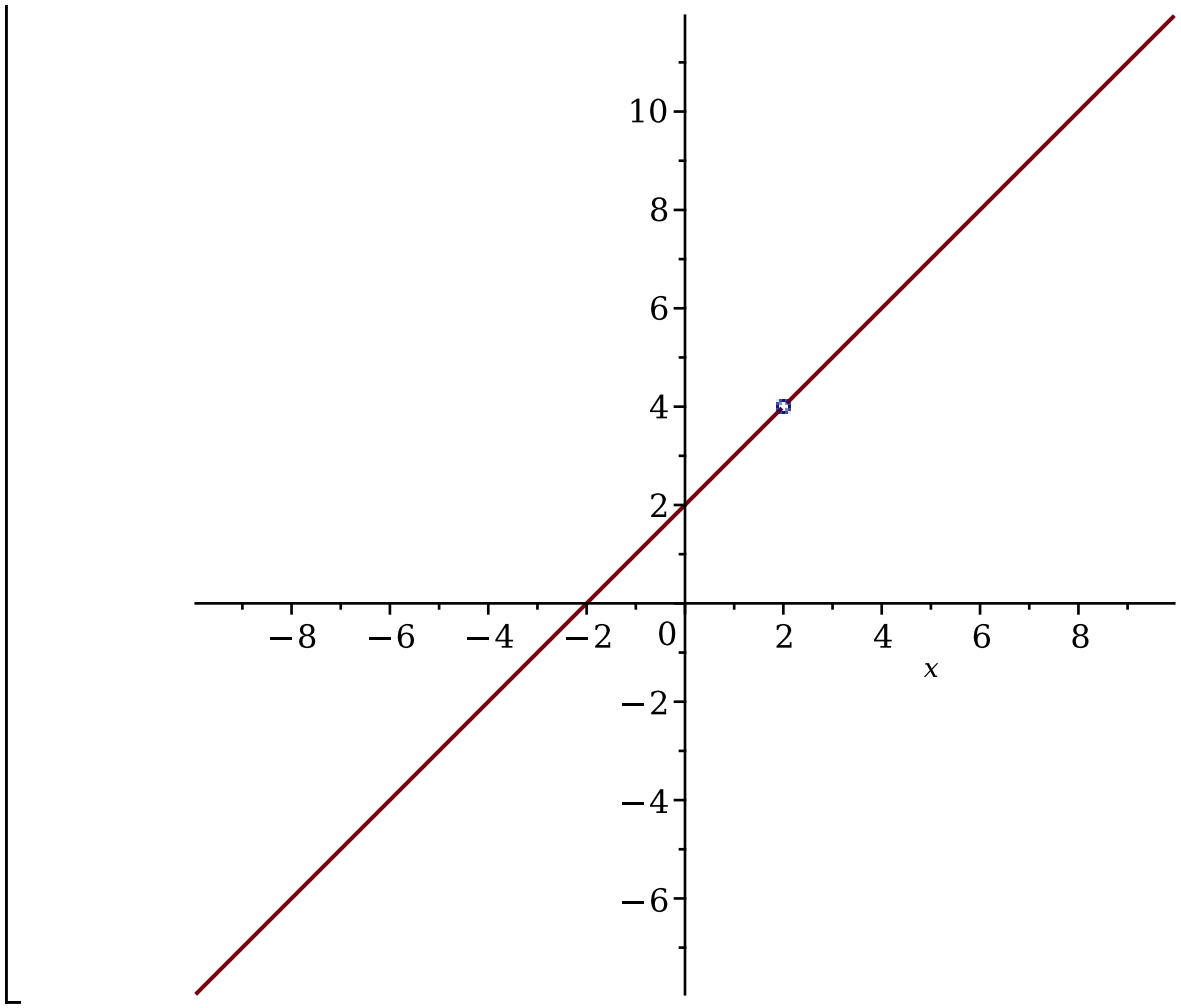
Ukol 5)

```
> plot(sin, -5*Pi..5*Pi, size=[1000, 200])
```



Ukol 6)

```
> koleckopico := plot([[2, 4]], style=point, symbol=circle):
> fce := plot((x**2-4)/(x-2)):
> display(fce, koleckopico)
```


10
8
6
4
2
−8
−6
−4
−2
0
2
4
6
8
x
−2
−4
−6