Harmonická řada $\sum_{n=1}^{\infty} \frac{1}{n^2}$

Jde o konvergentní řadu se součtem $\frac{1\,\pi^2}{6}$

Jeho hodnota je na 100 desetinných míst rovna
1.64493406684822643647241516664602518921894990120679843773555822937000747040320\
0873833628900619758706

Součet 1000 členů je roven
1.64393456

```
> 1/6*Pi^2;
> with(plots):
Warning, the name changecoords has been redefined
> evalf(Pi^2/6,100);
```

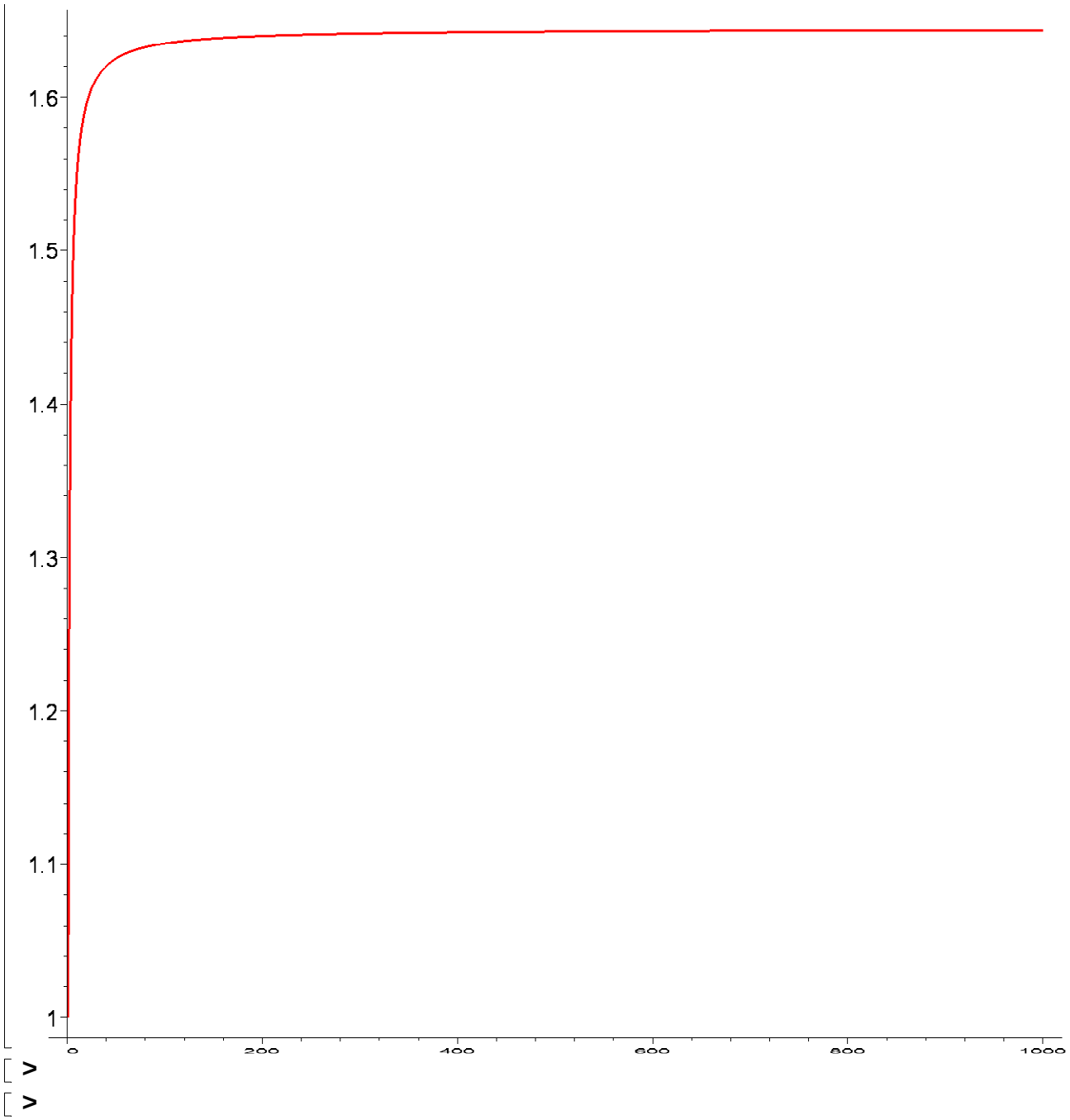
1.64493406684822643647241516664602518921894990120679843773555822937000747040\
3200873833628900619758706

```
> Pi^2/6;
>
```

$$\frac{\pi^2}{6}$$

```
> a:=[seq([n,sum(1/k^2,k=1..n)], n=1..1000)]:

> aaa := plot(a,style = line):
> display(aaa,scaling=unconstrained,thickness=3);
```


1.6
1.5
1.4
1.3
1.2
1.1
1
0
200
400
600
800
1000
V
V