```
> restart:
```

Kardoida

$$[a\,(2\cos(t)-\cos(2\,t)),\,a\,(2\sin(t)-\sin(2\,t))]$$

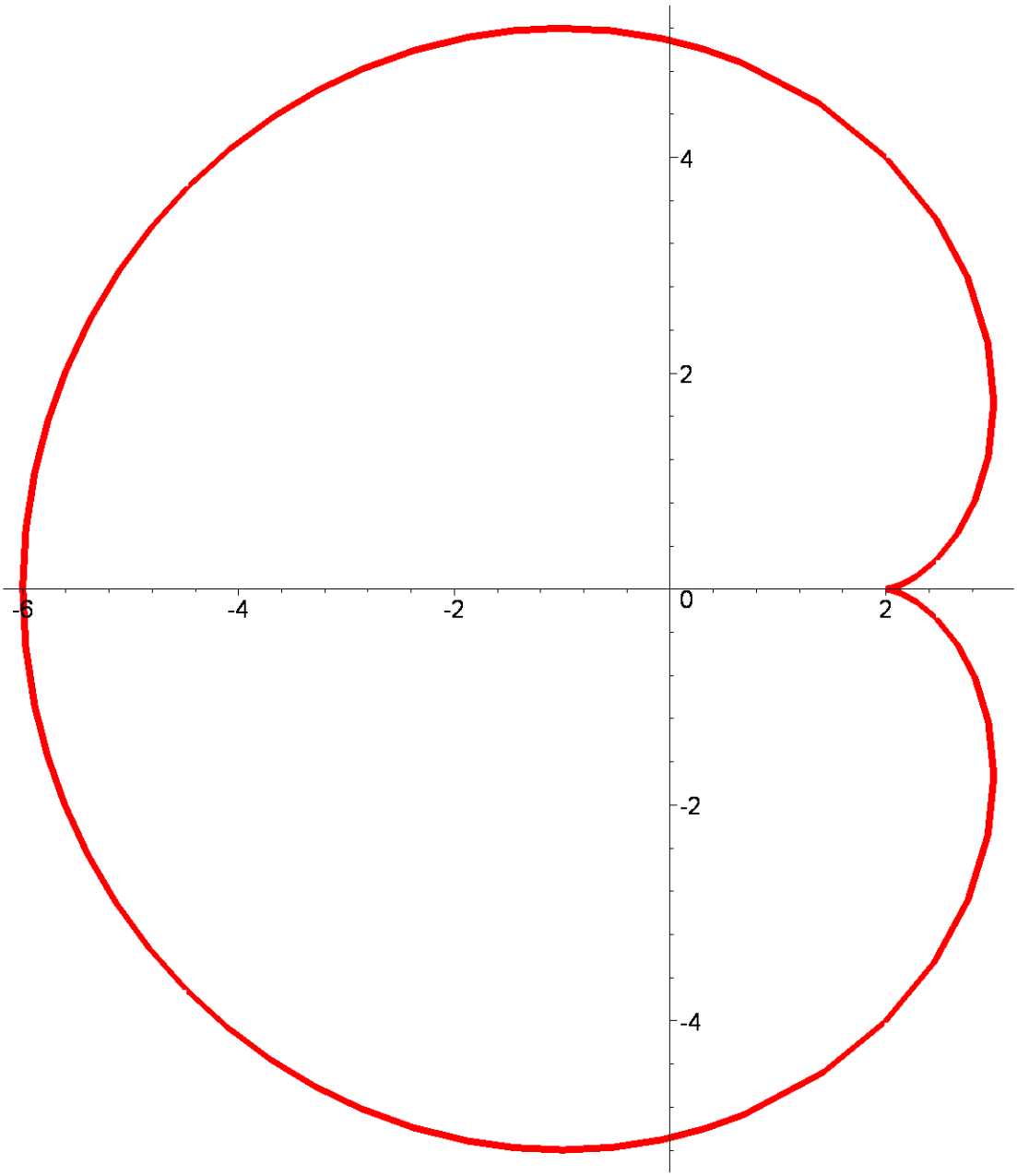
$$[a\,(2\cos(t)-\cos(2\,t)),\,a\,(2\sin(t)-\sin(2\,t))]$$

Jde o polárně zadanou funkci s pěkným grafem

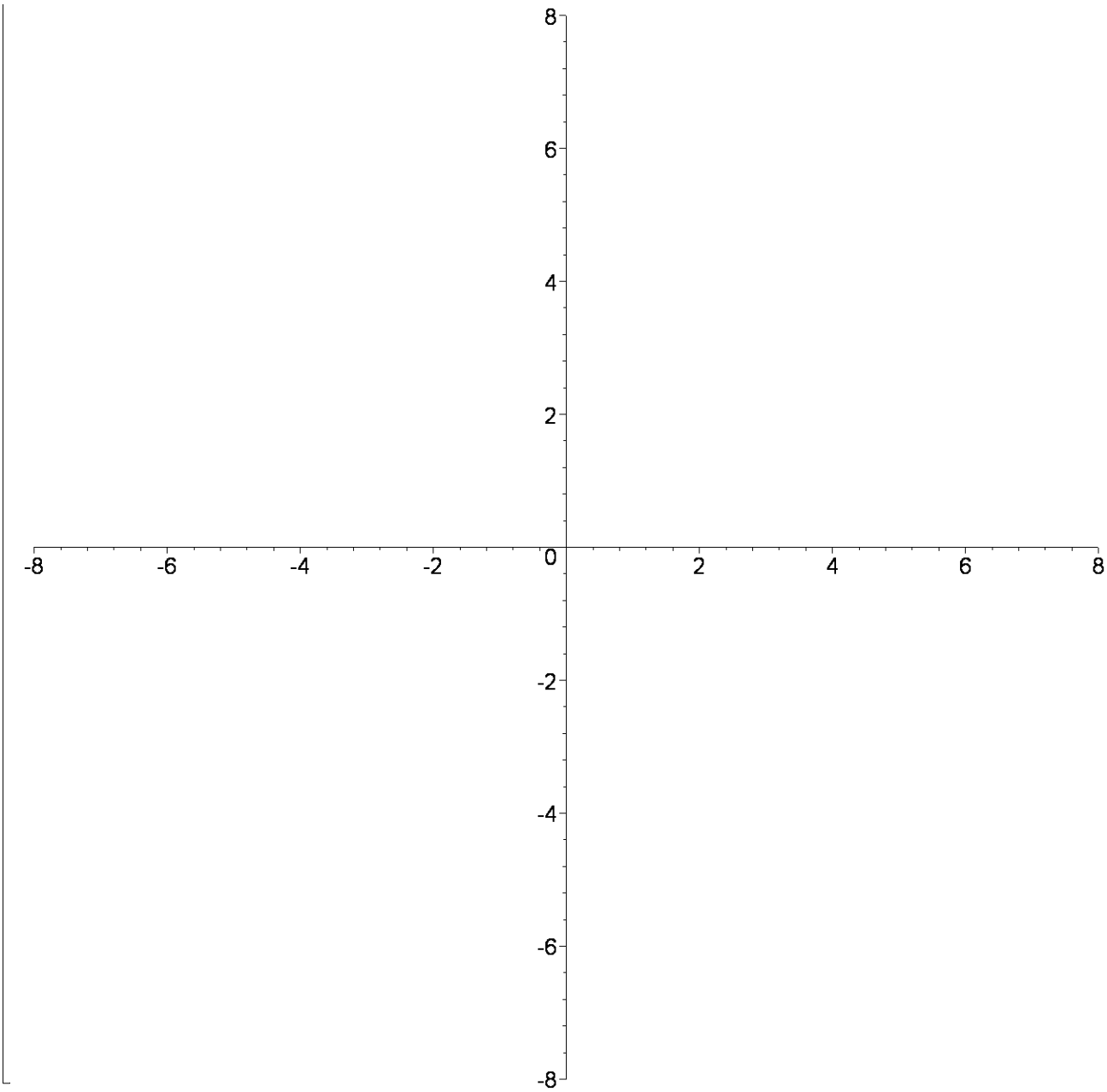
```
> ?
```

?

```
> restart:
> with(plottools):with(plots):
> a:=2:
> plot([a*(2*cos(t)-cos(2*t)),a*(2*sin(t)-sin(2*t)),t=0..2*Pi],thi
  ckness=8,scaling=constrained);
```




```
> animate([a*(2*cos(t*u/10)-cos(2*t*u/10)),a*(2*sin(t*u/10)-sin(2*
  t*u/10)),t=0..2*Pi],u=0..10,thickness=4,scaling=constrained,view
  =[-8..8,-8..8]);
```




```
>
>
> plotsetup(ps,plotoutput=`aaaaaaaaaaa.ps`,plotoptions=`noborder,
  axisheight=10cm, axiswidth=10cm,portrait,color`);
>
>
```