

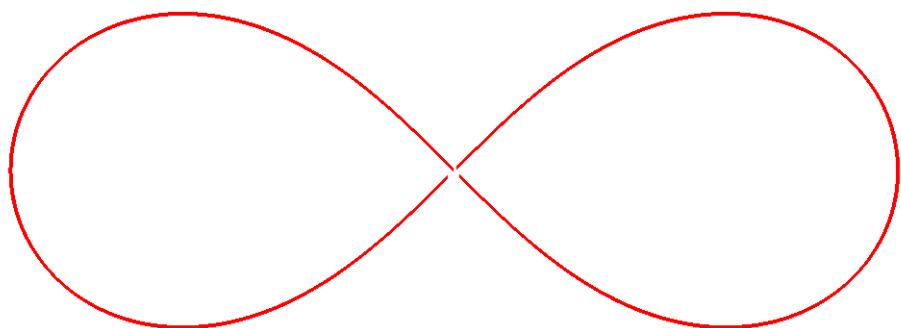
```
[> restart:
```

Lemniskata $r^2 = a^2 \cos(2 t)$

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Jde o polárně zadanou funkci s pěkným grafem

```
[> r:=sqrt(a^2*(cos(2*t)));  
[> r :=  $\sqrt{a^2 \cos(2 t)}$   
>  
[> with(plottools):with(plots):  
[> a:=2:  
> plot([r,t,t=0..4*Pi],thickness=4,scale=constrained,coords=polar  
r,axes=none,numpoints=1000);
```



```
> animate([sqrt(a^2*((cos(2*t*u/10)))),t*u/10,t=0..2*Pi],u=0..10,t  
hickness=4,scale=constrained,coords=polar,axes=none,numpoints=  
1000);
```

```
[> sign(-1);
[> -1
[>
[> plotsetup(ps,plotoutput=`aaaaaaaaaa.ps`,plotoptions=`noborder,
[> axisheight=10cm, axiswidth=10cm,portrait,color`);
[> bbb:=implicitplot3d( x^3 + y^3 + z^3 = 1,x=0..1,y=0..1,
[> z=0..1,grid=[13,13,13], axes=boxed):
[>
[> aaa := plot({0, x^x},x = 0 .. 1):
[> ccc:=plot3d({2-x-y}, x=0..1, y=0..1, axes=boxed,color=blue):
[> display(aaa);
[> plot([t,t,t=0..4*Pi],coords=polar);
[>
```