

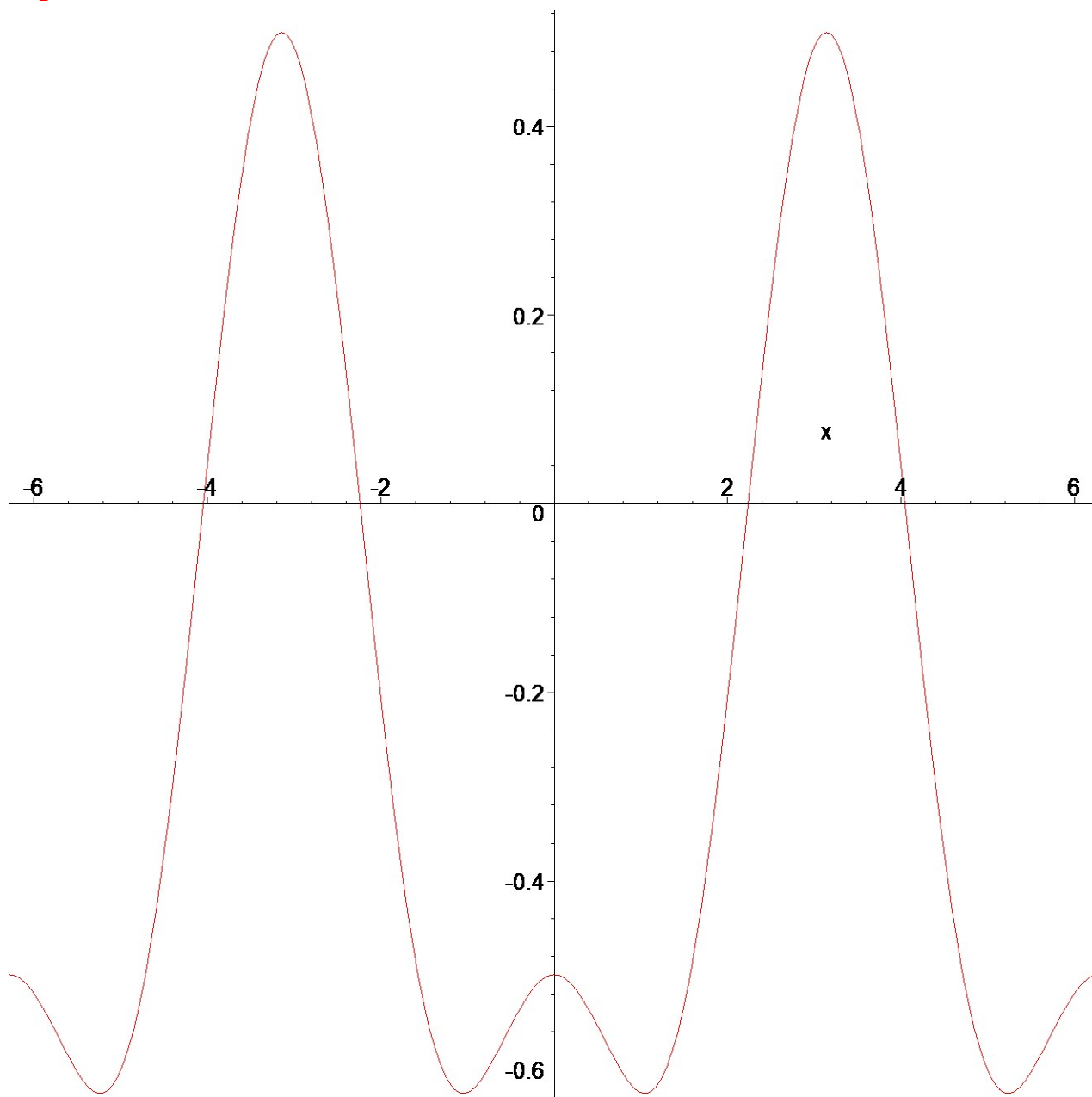
```
[ > # К задаче о вращающемся обруче с кольцом:
[ >
[ > restart;
[ >
[ > P:=x->-sin(x)^2/2-lam*cos(x);
```

$$P := x \rightarrow -\frac{1}{2} \sin(x)^2 - \text{lam} \cos(x)$$

```
[ > lam:=0.5;
```

lam := 0.5

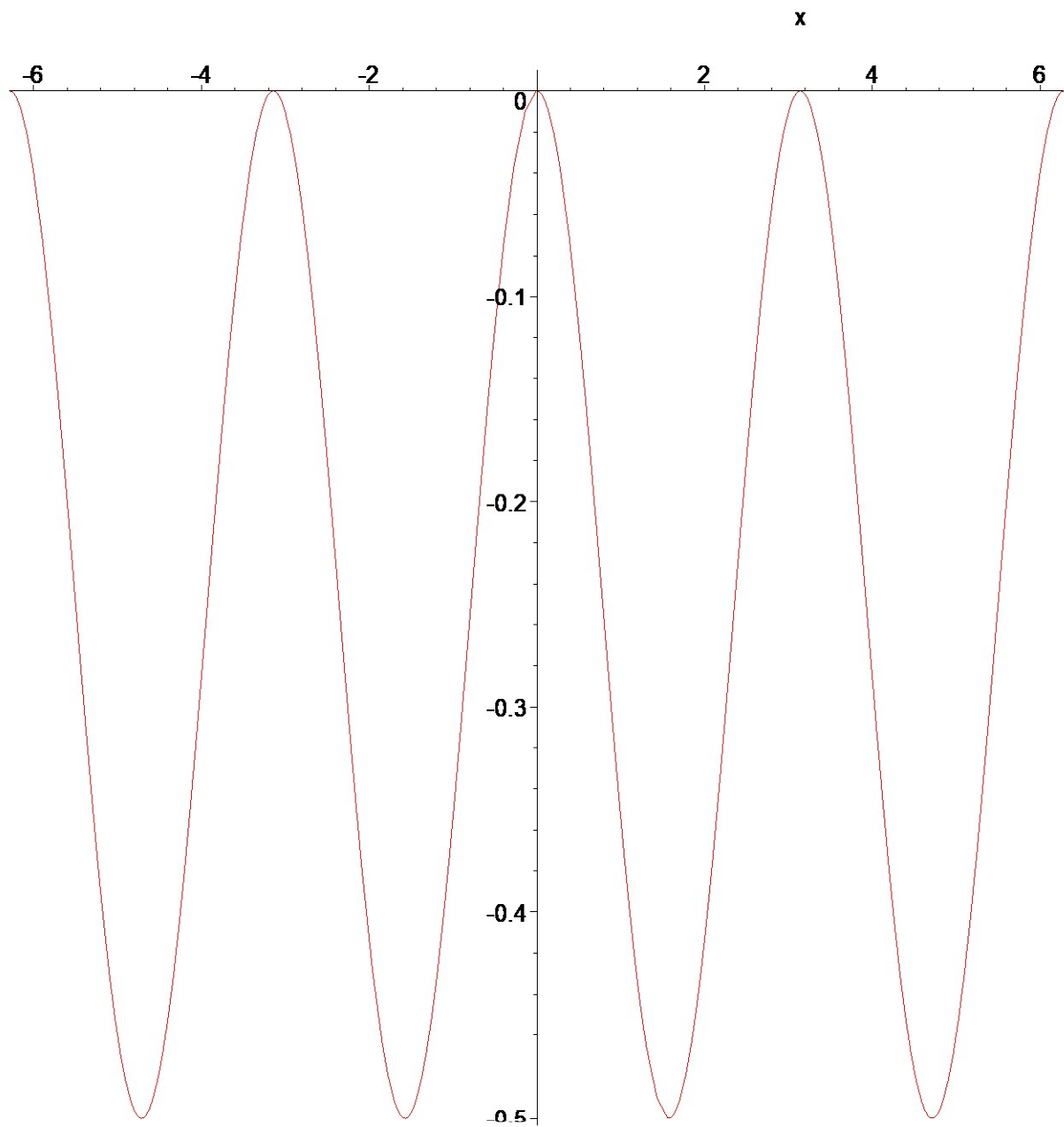
```
[ > plot(P(x),x=-2*Pi..2*Pi);
```



```
[ > lam:=0;
```

lam := 0

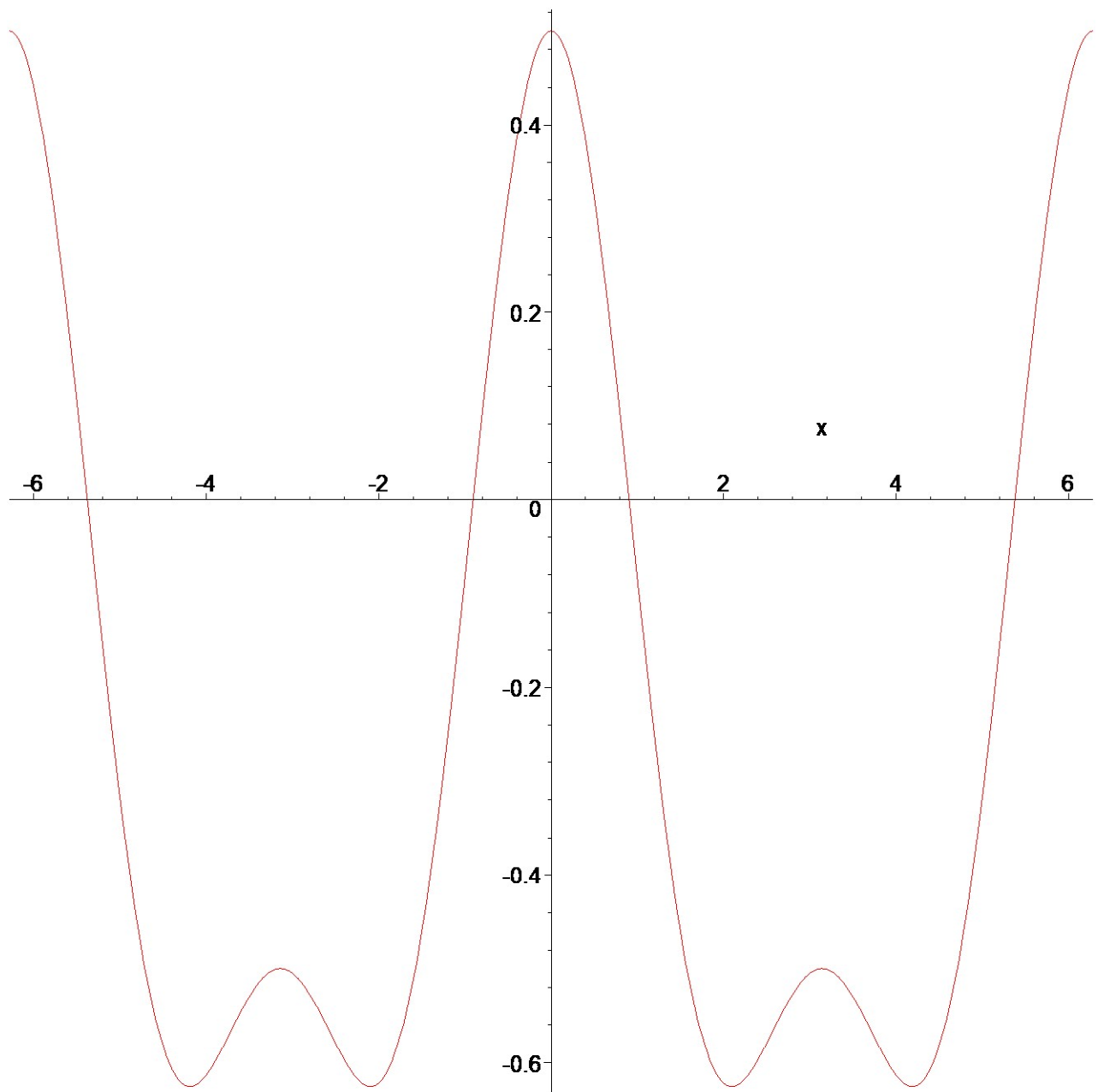
```
[ > plot(P(x),x=-2*Pi..2*Pi);
```



```
> lam:=-0.5;
```

lam := -0.5

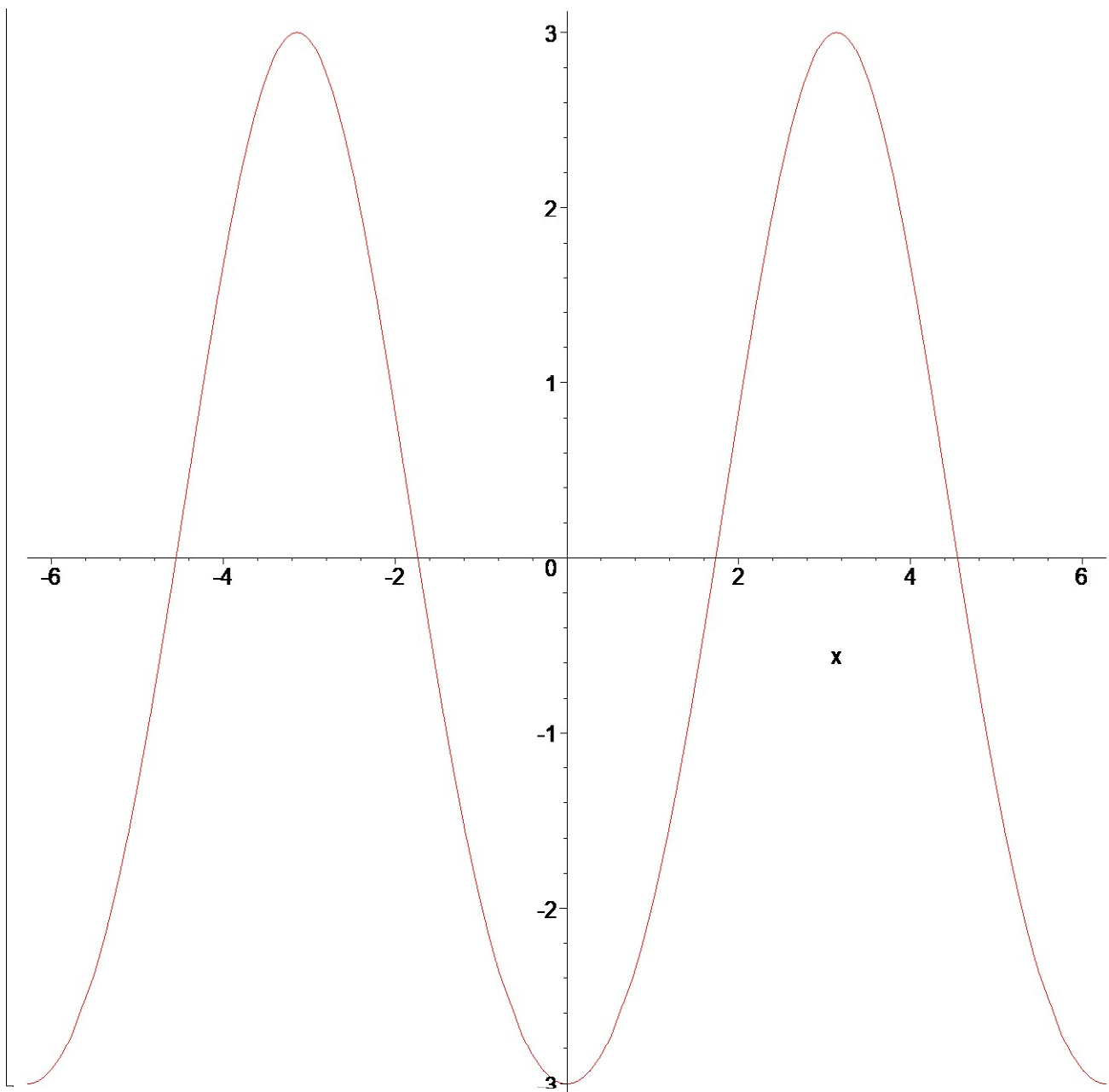
```
> plot(P(x),x=-2*Pi..2*Pi);
```



```
> lam:=3;
```

lam := 3

```
> plot(P(x),x=-2*Pi..2*Pi);
```



```
> lam:=-3;
```

lam := -3

```
> plot(P(x),x=-2*Pi..2*Pi);
```

