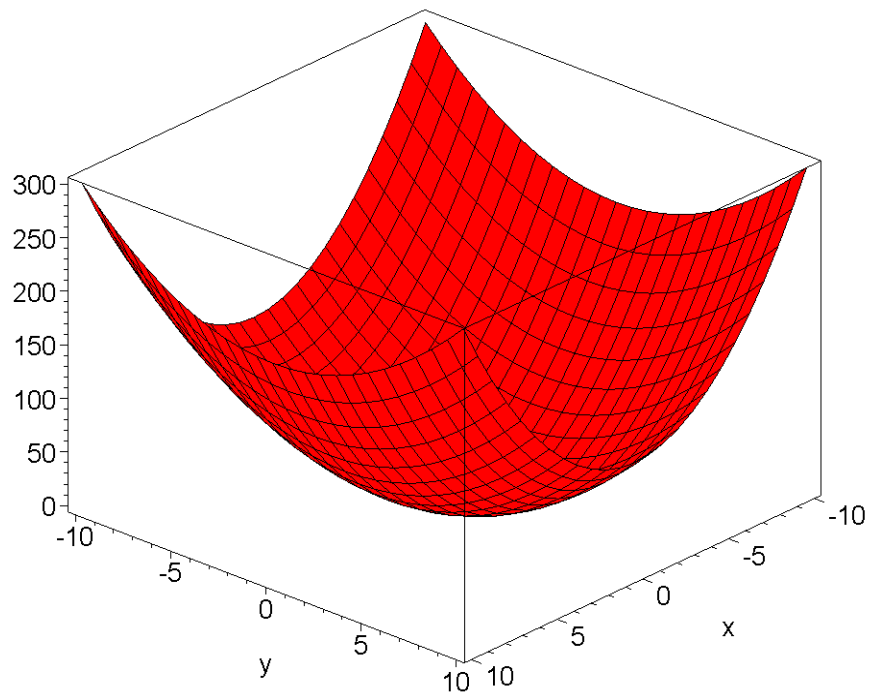


```
> restart:with( plots):  
Warning, the name changecoords has been redefined
```

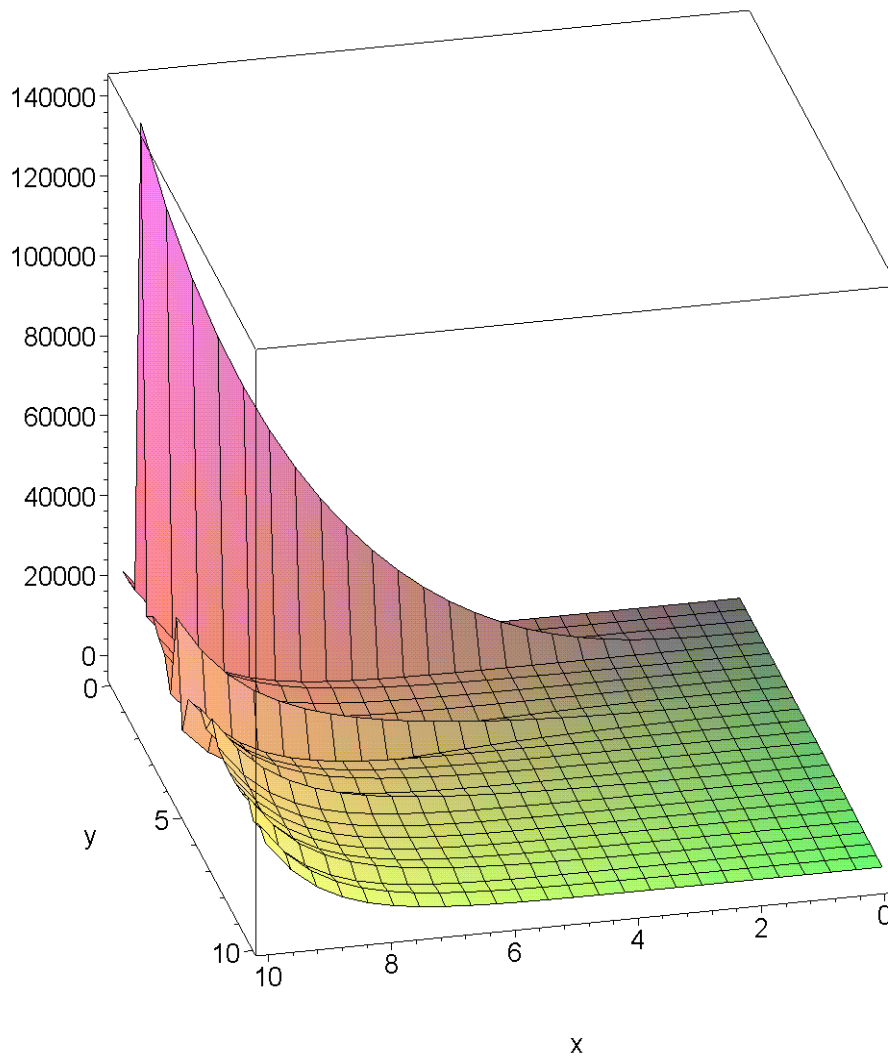
```
>  
> g := (x, y) -> 2*x^2+y^2;  
plot3d(g(x,y), x = -10..10,  
y = -10..10, color=red,axes=boxed);
```

$$g := (x, y) \rightarrow 2x^2 + y^2$$



```
>  
>  
>  
> g := (x, y) -> exp(x) - y^3 + sin(x*y) + x^3*tan(y^2);  
plot3d(g(x,y), x = 0..10, y = 0 .. 10, axes=boxed);
```

$$g := (x, y) \rightarrow e^x - y^3 + \sin(yx) + x^3 \tan(y^2)$$

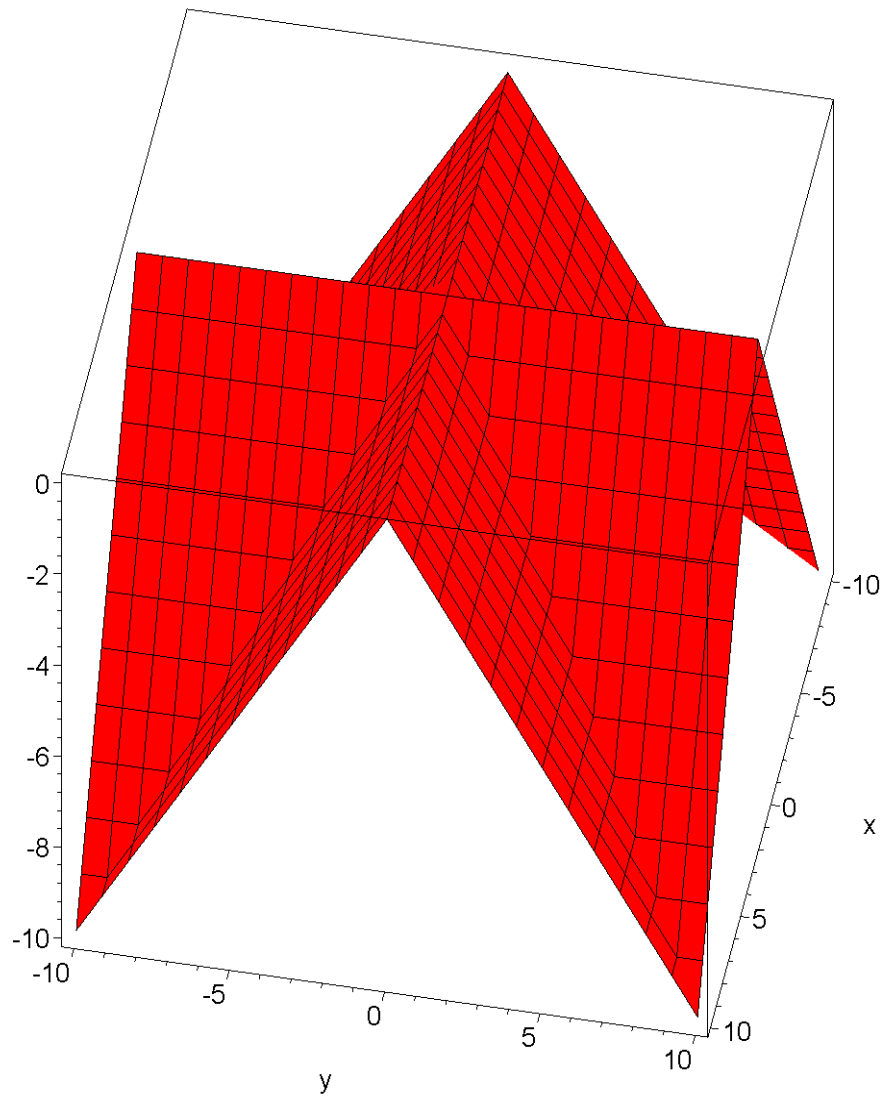


>

> `g := (x, y) -> ( abs(abs(x)-abs(y)) - abs(x) -abs(y))/2;`

$$g := (x, y) \rightarrow \frac{1}{2}||x|-|y|| - \frac{1}{2}|x| - \frac{1}{2}|y|$$

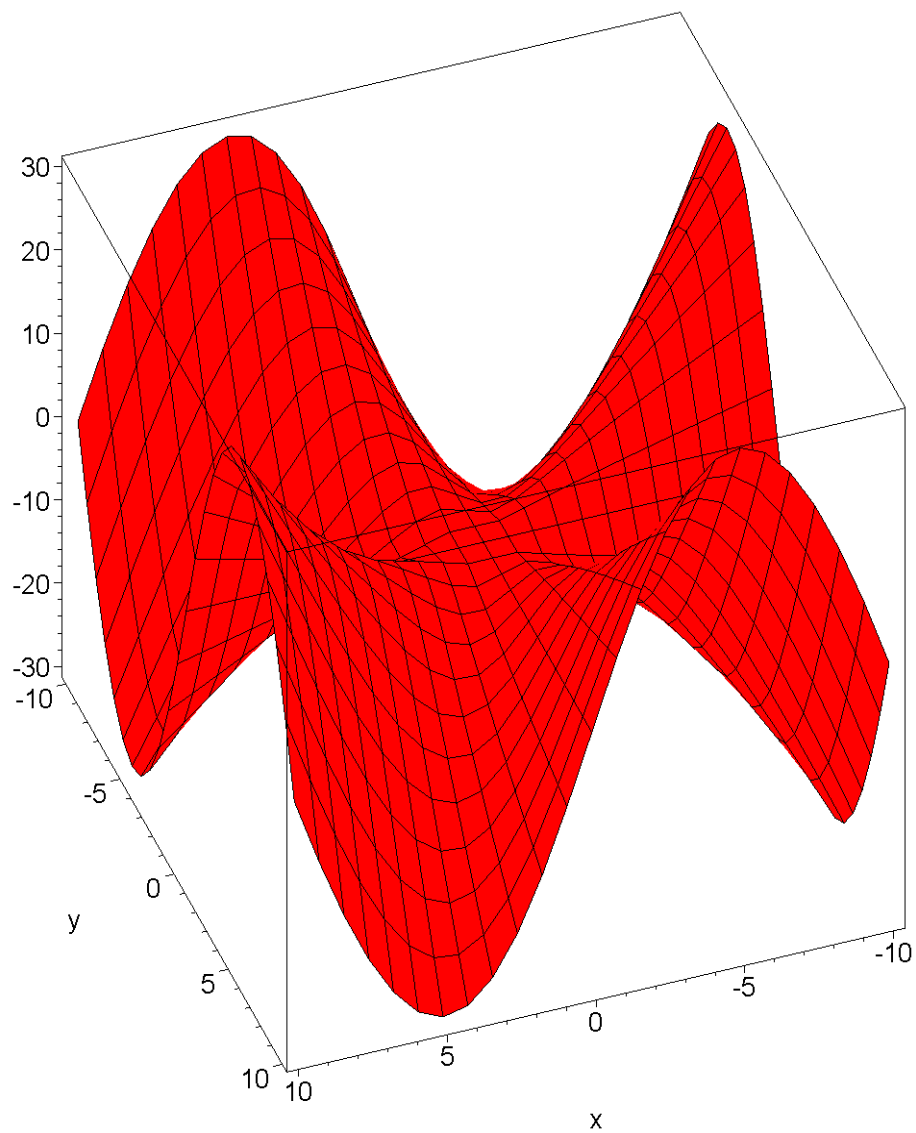
> `plot3d(g(x,y), x = -10..10,y = -10..10, color=red,axes=boxed);`



```
> g := (x, y) -> x*y*(x^2-y^2)/(x^2+y^2);
```

```
> plot3d(g(x,y), x = -10..10, y = -10..10, color=red, axes=boxed);
```

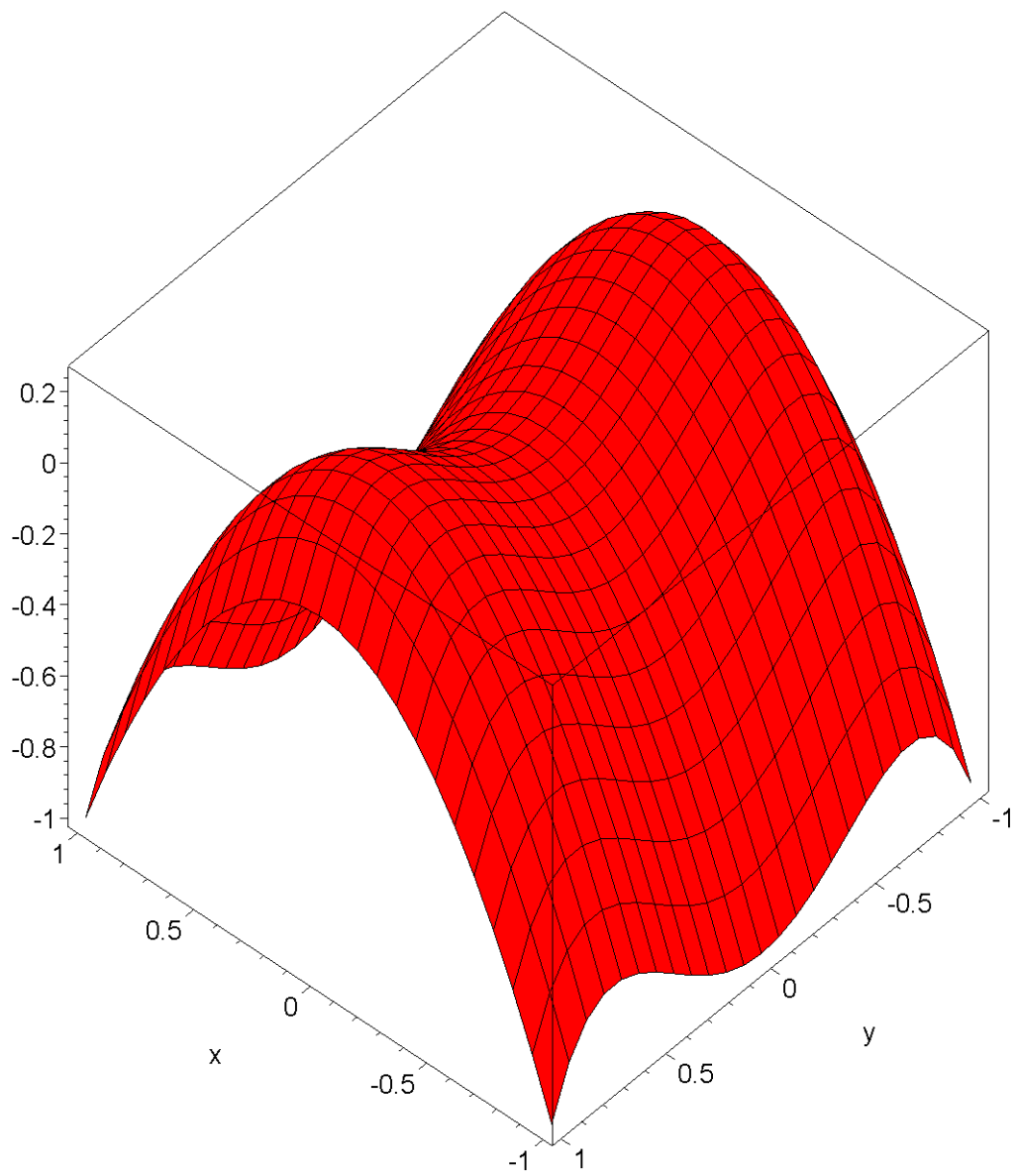
$$g := (x, y) \rightarrow \frac{xy(x^2 - y^2)}{x^2 + y^2}$$



```
> g := (x, y) -> y^2-y^4-x^2;
```

```
> plot3d(g(x,y), x = -1..1, y = -1..1, color=red, axes=boxed);
```

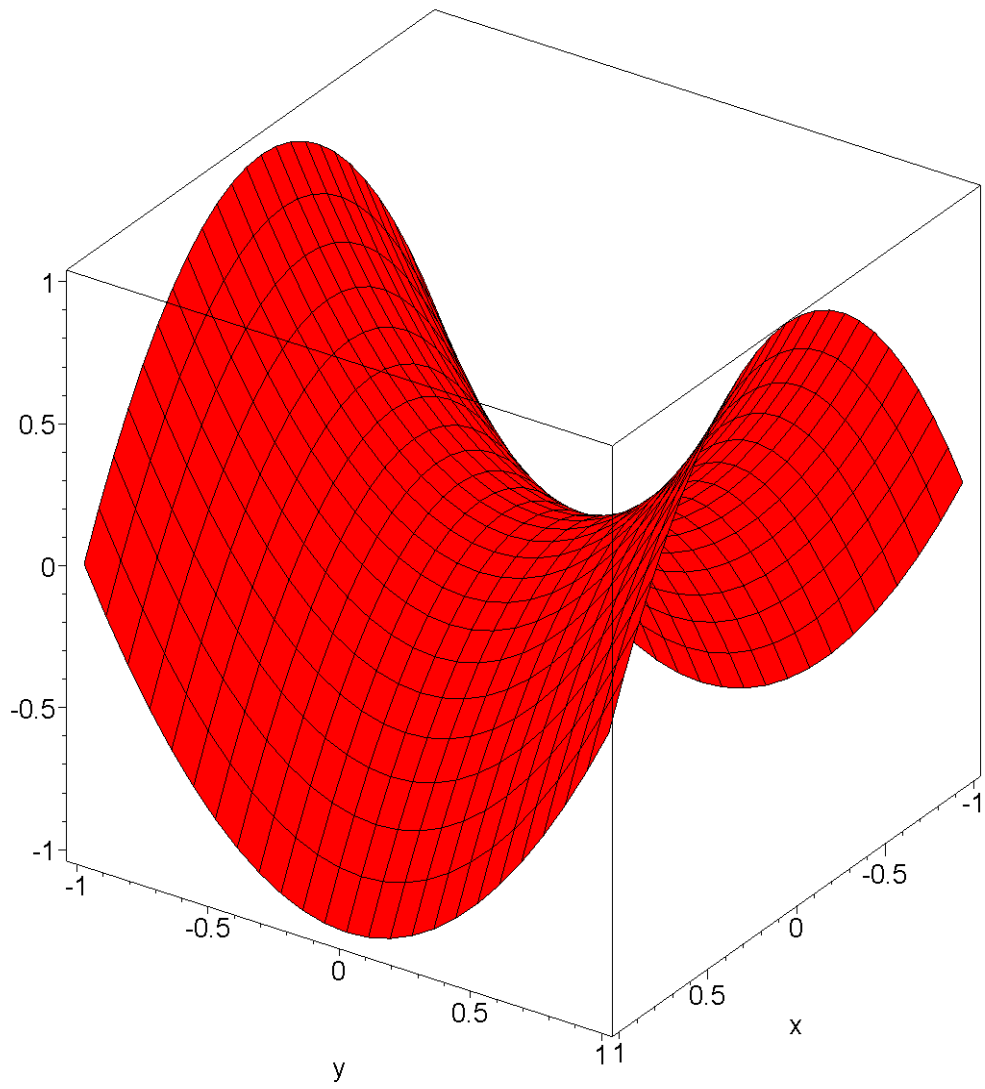
$$g := (x, y) \rightarrow y^2 - y^4 - x^2$$



```
> g := (x, y) -> y^2-x^2;
```

```
> plot3d(g(x,y), x = -1..1, y = -1..1, color=red, axes=boxed);
```

$$g := (x, y) \rightarrow y^2 - x^2$$



[ >  
[ >