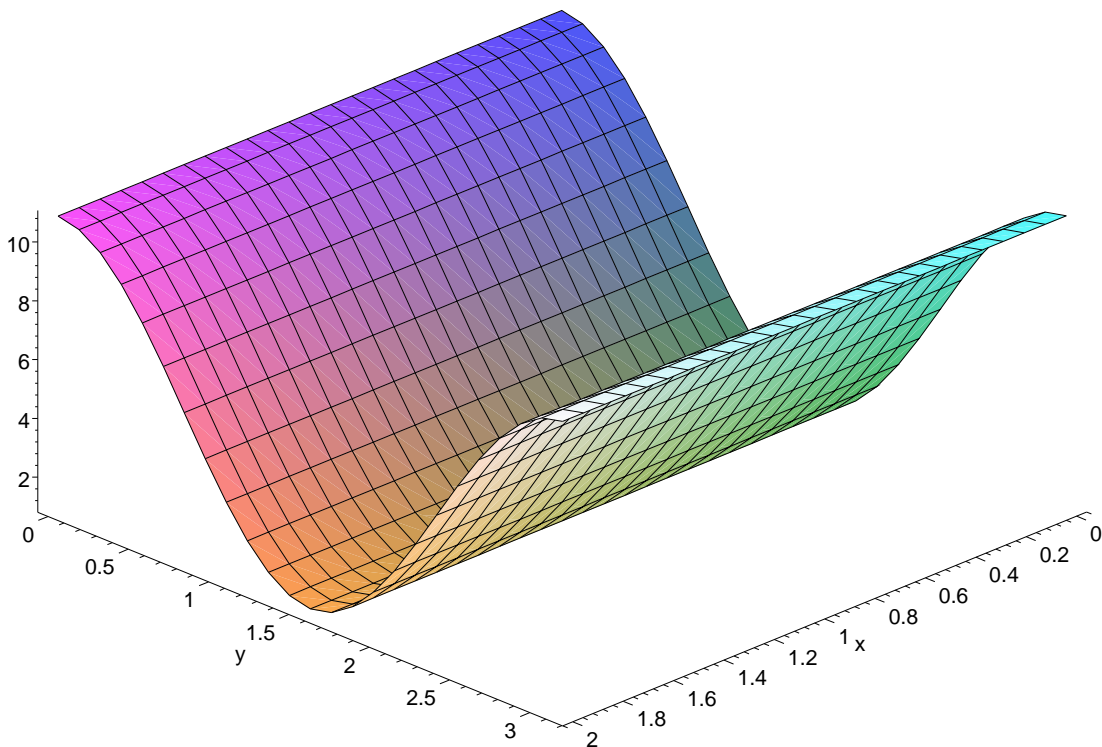


```

[ > restart;
[ >
[ > latitude:=y;
                                latitude := y
[ > longitude:=Pi*x;
                                longitude := π x
[ > z[0]:=sin(Pi/2-latitude)*cos(longitude);
                                z0 := cos(y) cos(π x)
[ > z[1]:=sin(Pi/2-latitude)*sin(longitude);
                                z1 := cos(y) sin(π x)
[ > z[2]:=cos(Pi/2-latitude);
                                z2 := sin(y)
[ > f:=diff(z[0],x)^2+diff(z[0],y)^2+diff(z[1],x)^2+diff(z[1],y)^2+diff
f(z[2],x)^2+diff(z[2],y)^2;
f := cos(y)2 sin(π x)2 π2 + sin(y)2 cos(π x)2 + cos(y)2 cos(π x)2 π2 + sin(y)2 sin(π x)2 + cos(y)2
[ > plot3d(f,x=0..2,y=0..Pi);

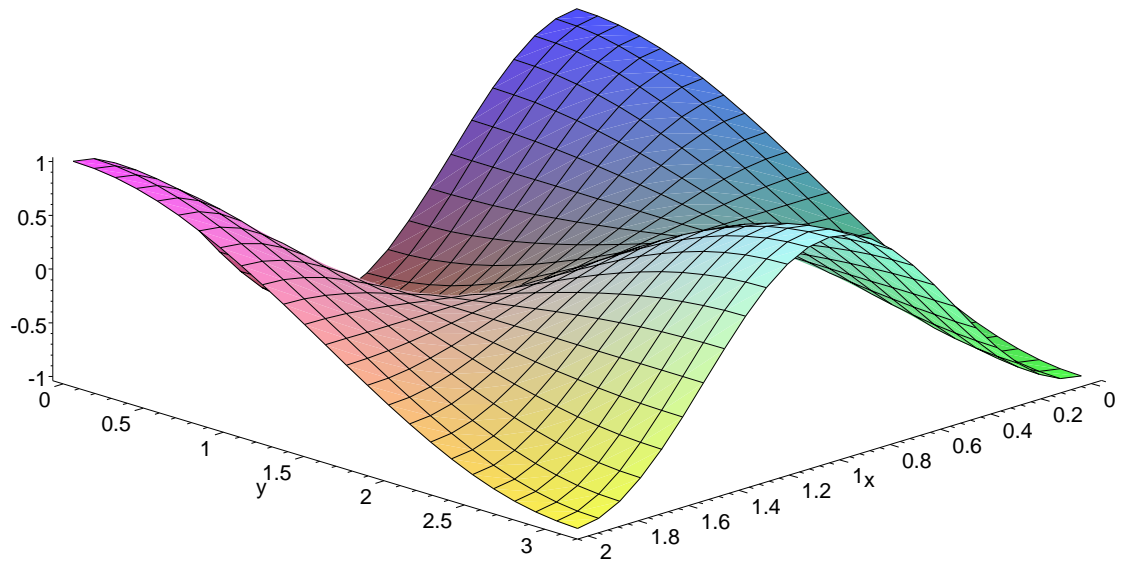
```



```

[ > plot3d(z[0],x=0..2,y=0..Pi);

```



[>