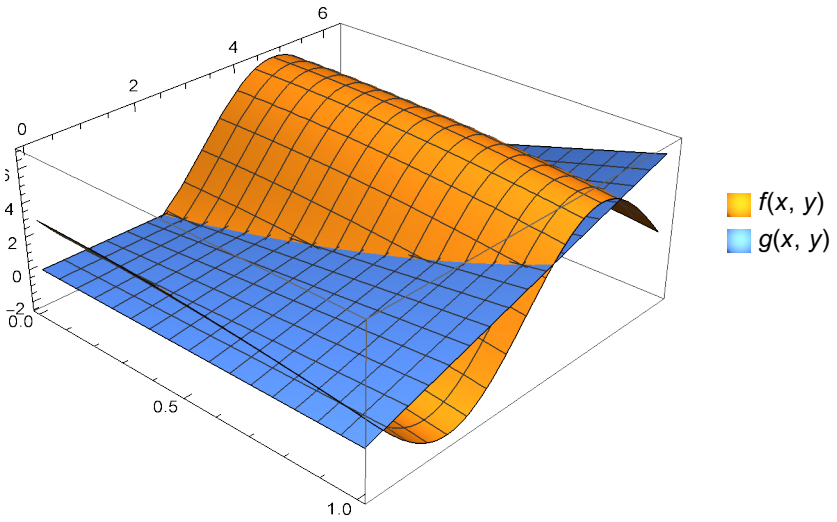
Zadanie 1

In[14]:=
```
f[x_, y_] := 3 Cos[x] - 4 Sin[y];
g[x_, y_] := x y;
```

Podpunkt 1.

In[22]:=
```
Plot3D[{f[x, y], g[x, y]}, {x, 0, 1}, {y, 0, 2 π}, PlotLegends → "Expressions"]
```

Out[22]=



Podpunkt 2.

In[16]:=
```
𝒟 = ImplicitRegion[(0 ≤ x ≤ π) && (0 ≤ y ≤ 2 π), {x, y}];

∫{x,y}∈𝒟 (f[x, y] - g[x, y])
```

Out[17]= $-\pi^4$