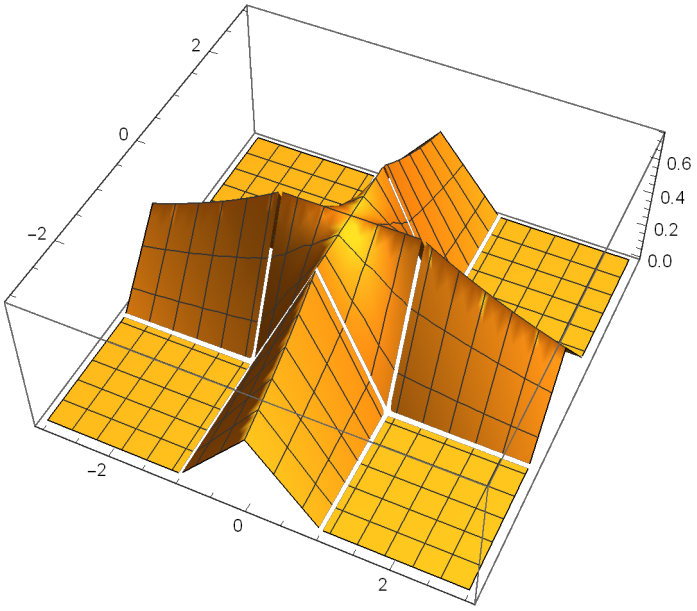
In[1]:=
```
a = 1;
α = 0.3;
P1[x_, y_] := (1 - Abs[x y] / a^2) e^-α;
P2[x_, y_] := (1 - Abs[x] / a) e^-α Abs[y]/a;
P3[x_, y_] := (1 - Abs[y] / a) e^-α Abs[x]/a;
P4[x_, y_] := 0;
pw = Piecewise[{{P1[x, y], Abs[x] ≤ 1 && Abs[y] ≤ 1},
    {P2[x, y], Abs[x] ≤ 1 && Abs[y] > 1}, {P3[x, y], Abs[x] > 1 && Abs[y] ≤ 1}}, P4[x, y]]
```

Out[7]=
$$\begin{cases} 0.740818\,(1-\text{Abs}[x\,y]) & \text{Abs}[x]\le 1\ \&\&\ \text{Abs}[y]\le 1 \\ e^{-0.3\,\text{Abs}[y]}\,(1-\text{Abs}[x]) & \text{Abs}[x]\le 1\ \&\&\ \text{Abs}[y]> 1 \\ e^{-0.3\,\text{Abs}[x]}\,(1-\text{Abs}[y]) & \text{Abs}[x]> 1\ \&\&\ \text{Abs}[y]\le 1 \\ 0 & \text{True} \end{cases}$$

In[8]:=
```
Plot3D[pw, {x, -3, 3}, {y, -3, 3}]
```

Out[8]=



In[9]:=
```
ContourPlot[pw, {x, -3, 3}, {y, -3, 3}]
```

Out[9]=