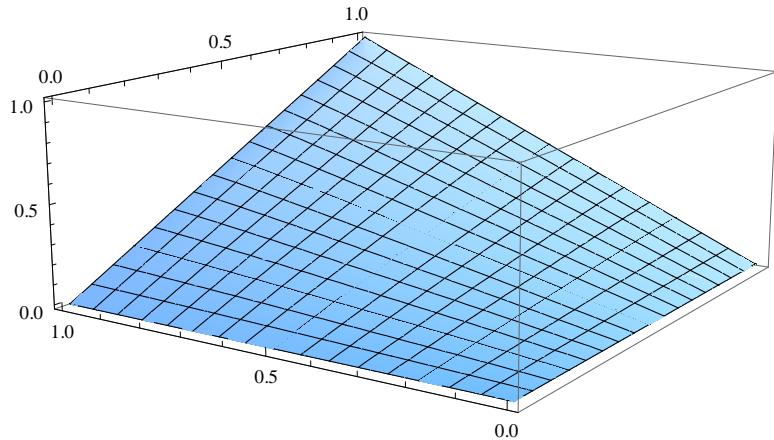


```

c[x_, y_, a_] := Exp[-((-Log[x])^a + (-Log[y])^a)^a^(1/a)]
Exit[]

A = 1.05; Plot3D[c[x, y, A], {x, 0, 1}, {y, 0, 1}, MaxRecursion -> 10]

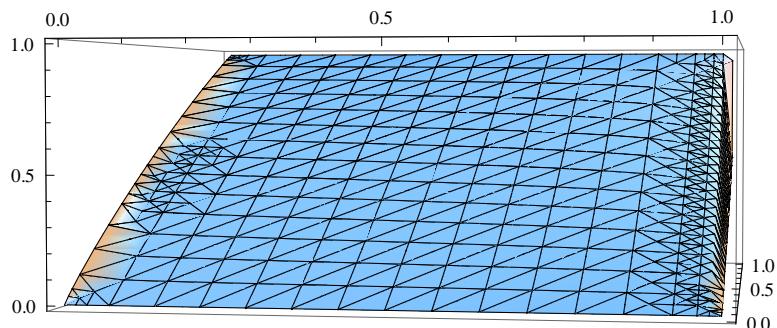
```



```

Plot3D[D[c[x, y, A], x] /. x -> x, {x, 0, 1},
{y, 0, 1}, PlotPoints -> 15, MaxRecursion -> 2, Mesh -> All]

```

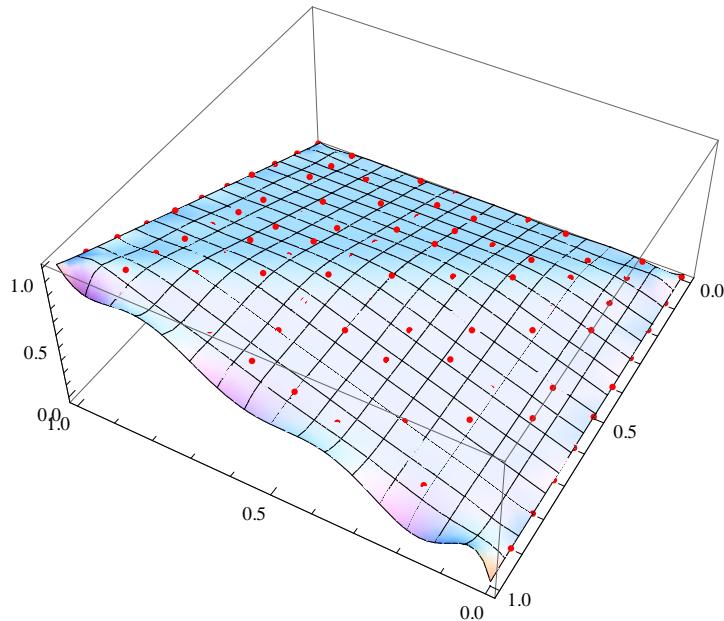


```

nx = 10; ny = 10; na = 10; M =
Flatten[Table[{x / nx, y / ny, c[x / nx, y / ny, A]}, {x, 0, nx}, {y, 0, ny}] // N, 1];
g = Fit[M, Flatten[Table[B[x, i] B[y, j], {i, 0, n}, {j, 0, n}]], {x, y}];

```

```
Show[Plot3D[g, {x, 0, 1}, {y, 0, 1}], ListPointPlot3D[M, PlotStyle -> Red]]
```



```
ff[nN_] := Flatten[
  Table[Table[Expand[(x + y)^l][[i]], {i, 1, Length[Expand[(x + y)^l]]}], {l, 0, nN}]];
ff[4]
{x, y, x^2, 2 x y, y^2, x^3, 3 x^2 y, 3 x y^2, y^3, x^4, 4 x^3 y, 6 x^2 y^2, 4 x y^3, y^4}

n = 8;
Po[a_, b_] := If[b < 0, a^b, 1];
B[x_, i_] := Binomial[n, i] Po[x, i] Po[1 - x, n - i];
Flatten[Table[B[x, i] B[y, j], {i, 0, n}, {j, 0, n}]]
{(1 - x)^3 (1 - y)^3, 3 (1 - x)^3 (1 - y)^2 y, 3 (1 - x)^3 (1 - y) y^2, (1 - x)^3 y^3,
 3 (1 - x)^2 x (1 - y)^3, 9 (1 - x)^2 x (1 - y)^2 y, 9 (1 - x)^2 x (1 - y) y^2,
 3 (1 - x)^2 x y^3, 3 (1 - x) x^2 (1 - y)^3, 9 (1 - x) x^2 (1 - y)^2 y, 9 (1 - x) x^2 (1 - y) y^2,
 3 (1 - x) x^2 y^3, x^3 (1 - y)^3, 3 x^3 (1 - y)^2 y, 3 x^3 (1 - y) y^2, x^3 y^3}
```