```
> with(plots);
```

[*Interactive, animate, animate3d, animatecurve, arrow, changecoords, complexplot, complexplot3d,* (1)
conformal, conformal3d, contourplot, contourplot3d, coordplot, coordplot3d, cylinderplot,
densityplot, display, display3d, fieldplot, fieldplot3d, gradplot, gradplot3d, graphplot3d,
implicitplot, implicitplot3d, inequal, interactive, interactiveparams, listcontplot, listcontplot3d,
listdensityplot, listplot, listplot3d, loglogplot, logplot, matrixplot, multiple, odeplot, pareto,
plotcompare, pointplot, pointplot3d, polarplot, polygonplot, polygonplot3d,
polyhedra_supported, polyhedraplot, replot, rootlocus, semilogplot, setoptions, setoptions3d,
spacecurve, sparsematrixplot, sphereplot, surfdata, textplot, textplot3d, tubeplot]

```
> sigma2q:=0.3;
```

$$\sigma 2q := 0.3 \tag{2}$$

```
> h1:=(x1,x2)->exp(-((x1-0.0)^2+(x2-0.0)^2)/sigma2q):    #
  Basisfunktionen h_i(x1, x2) der Repräsentanten
> h2:=(x1,x2)->exp(-((x1-1.0)^2+(x2-0.0)^2)/sigma2q):
> h3:=(x1,x2)->exp(-((x1-0.0)^2+(x2-1.0)^2)/sigma2q):
> h4:=(x1,x2)->exp(-((x1-1.0)^2+(x2-1.0)^2)/sigma2q);
```

$$h4 := (x1, x2) \rightarrow e^{\left(-\frac{(x1 - 1.0)^2 + (x2 - 1.0)^2}{\sigma 2q} \right)} \tag{3}$$

```
> v1:=0.0:   # Werte der Repräsentanten
  v2:=1.0:
  v3:=1.0:
  v4:=0.0;
```

$$v4 := 0. \tag{4}$$

```
> zaehler:=(x1,x2)->(v1*h1(x1,x2)+v2*h2(x1,x2)+v3*h3(x1,x2)+v4*h4
  (x1,x2));
```

$$zaehler := (x1, x2) \rightarrow v1\, h1(x1, x2) + v2\, h2(x1, x2) + v3\, h3(x1, x2) + v4\, h4(x1, x2) \tag{5}$$

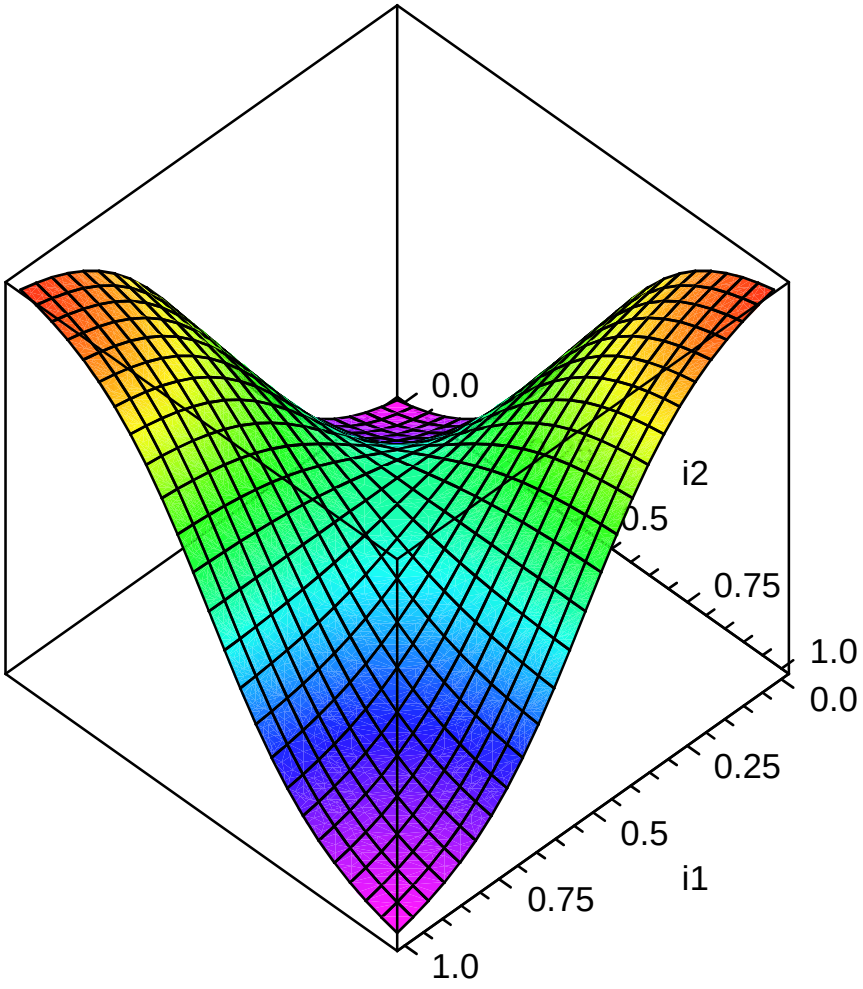
```
> nenner:=(x1,x2)->(h1(x1,x2)+h2(x1,x2)+h3(x1,x2)+h4(x1,x2));
```

$$nenner := (x1, x2) \rightarrow h1(x1, x2) + h2(x1, x2) + h3(x1, x2) + h4(x1, x2) \tag{6}$$

```
> RB:=(x1,x2)->zaehler(x1,x2)/nenner(x1,x2);
```

$$RB := (x1, x2) \rightarrow \frac{zaehler(x1, x2)}{nenner(x1, x2)} \tag{7}$$

```
> plot3d(RB(i1,i2), i1=0..1, i2=0..1, axes=boxed, style=patch,
  shading=zhue);
```


0.0
i2
0.5
0.75
1.0
0.0
0.25
0.5
i1
0.75
1.0

>
>