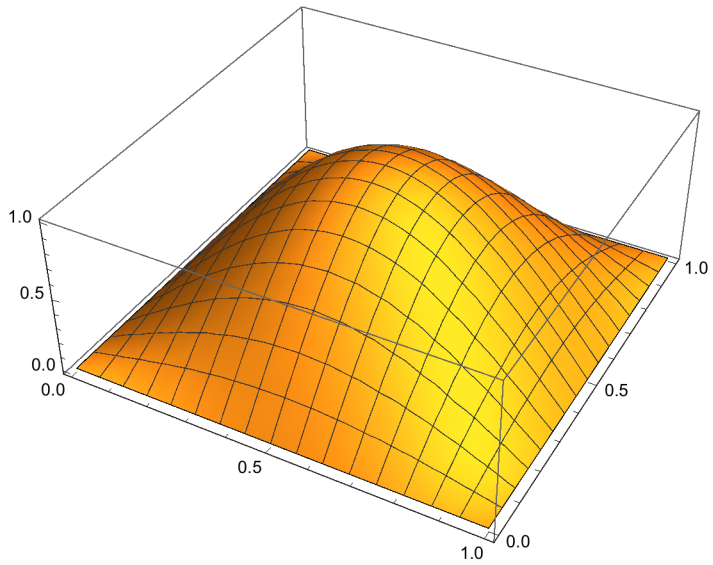
In[4]:=
```
Ez[m_, n_, a_, b_, x_, y_] := Sin[m π x / a] Sin[n π y / b]
```

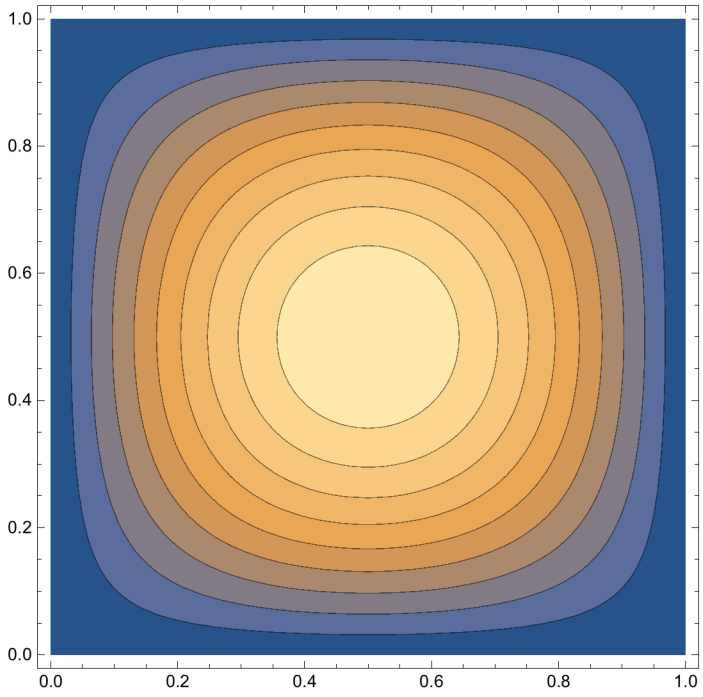
In[5]:=
```
Plot3D[Ez[1, 1, 1, 1, x, y], {x, 0, 1}, {y, 0, 1}]
```

Out[5]=



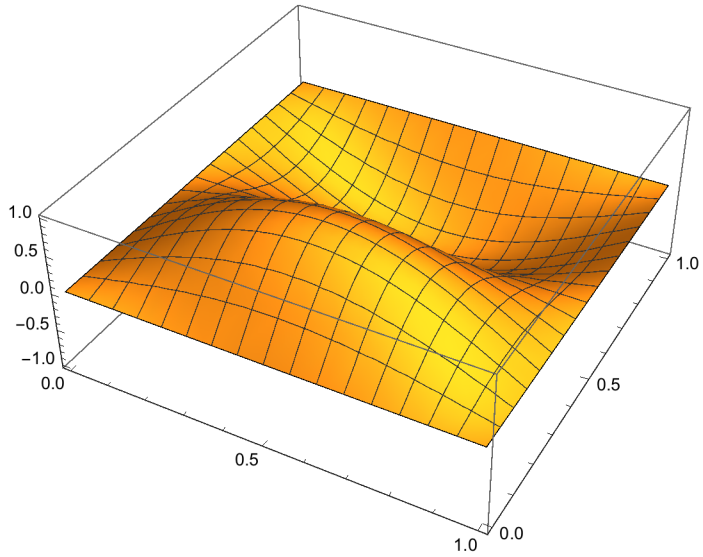
In[12]:=
```
ContourPlot[Ez[1, 1, 1, 1, x, y], {x, 0, 1}, {y, 0, 1}]
```

Out[12]=



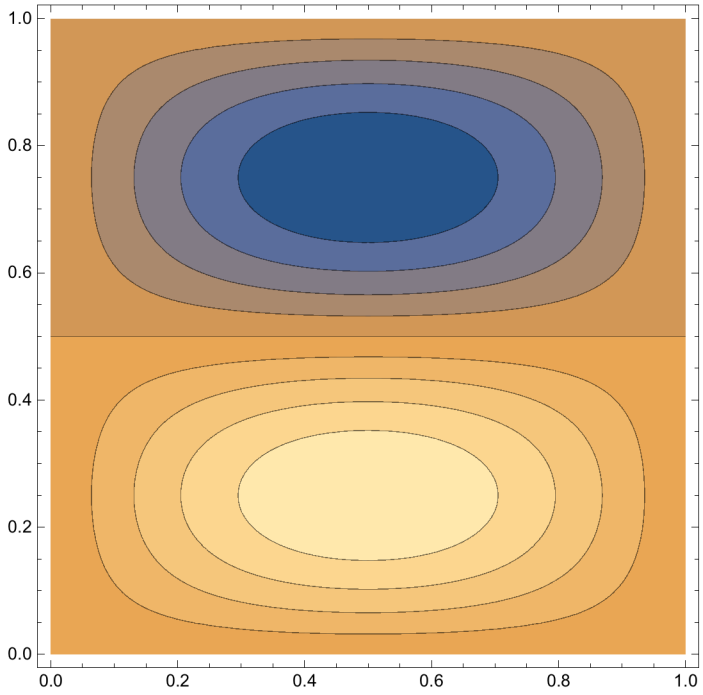
In[6]:=
```
Plot3D[Ez[1, 2, 1, 1, x, y], {x, 0, 1}, {y, 0, 1}]
```

Out[6]=



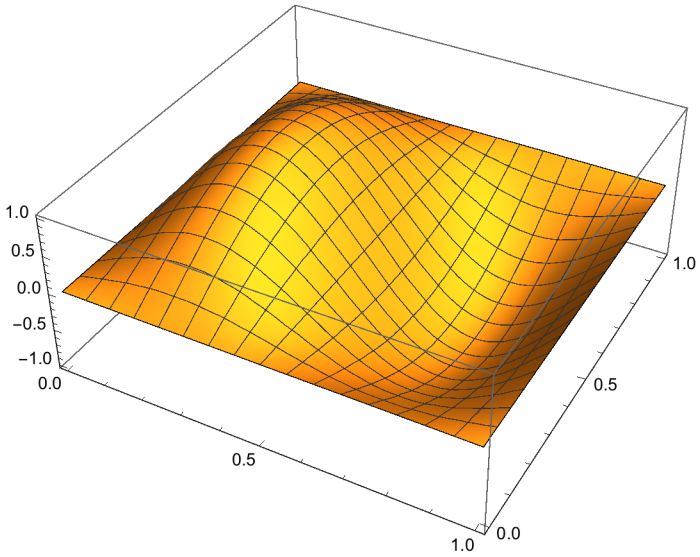
In[13]:=
```
ContourPlot[Ez[1, 2, 1, 1, x, y], {x, 0, 1}, {y, 0, 1}]
```

Out[13]=



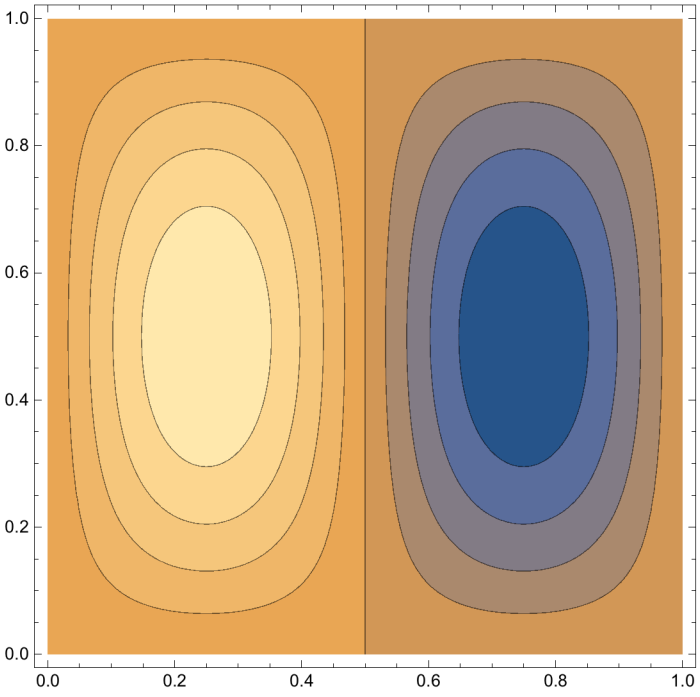
In[7]:=
```
Plot3D[Ez[2, 1, 1, 1, x, y], {x, 0, 1}, {y, 0, 1}]
```

Out[7]=



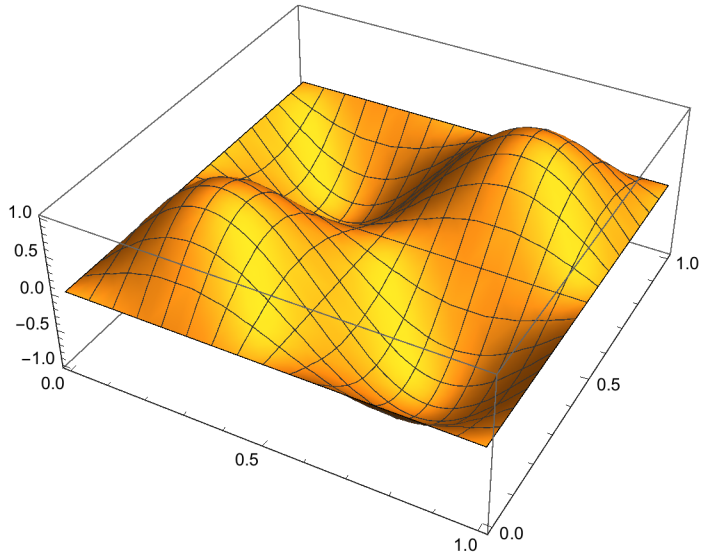
In[14]:=
```
ContourPlot[Ez[2, 1, 1, 1, x, y], {x, 0, 1}, {y, 0, 1}]
```

Out[14]=



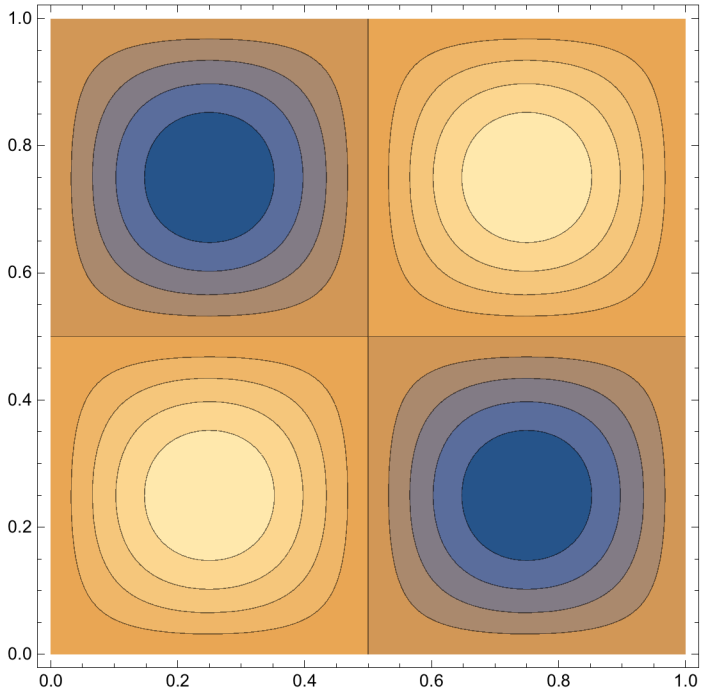
In[8]:=
```
Plot3D[Ez[2, 2, 1, 1, x, y], {x, 0, 1}, {y, 0, 1}]
```

Out[8]=



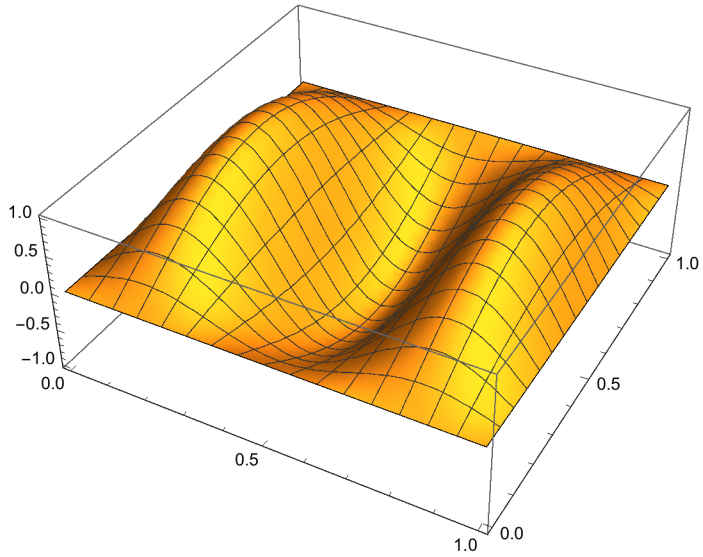
In[15]:=
```
ContourPlot[Ez[2, 2, 1, 1, x, y], {x, 0, 1}, {y, 0, 1}]
```

Out[15]=



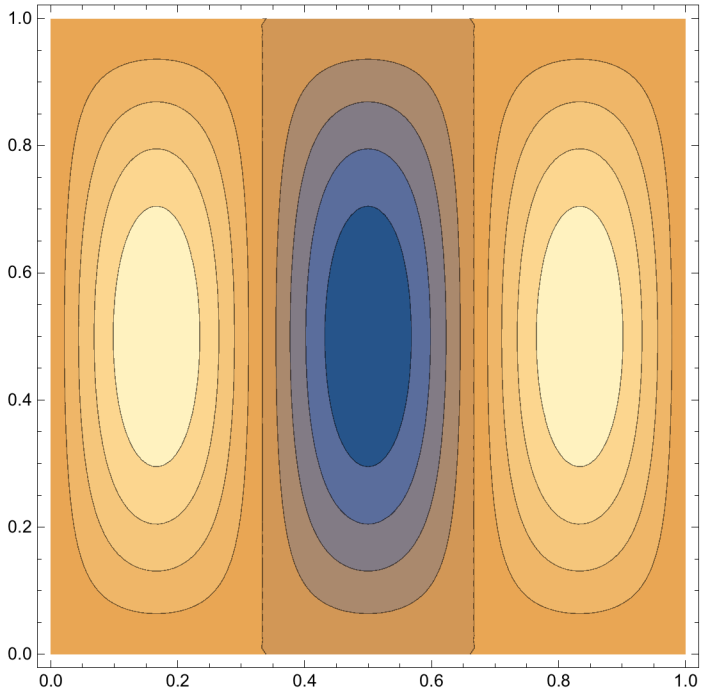
In[9]:=
```
Plot3D[Ez[3, 1, 1, 1, x, y], {x, 0, 1}, {y, 0, 1}]
```

Out[9]=



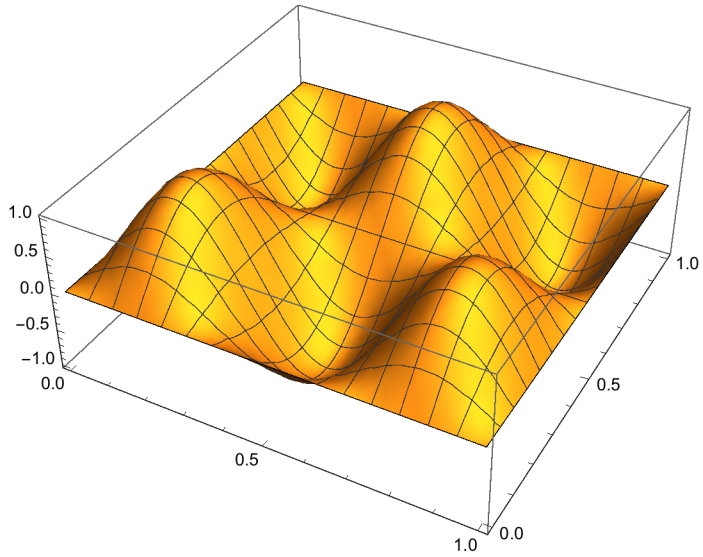
In[16]:=
```
ContourPlot[Ez[3, 1, 1, 1, x, y], {x, 0, 1}, {y, 0, 1}]
```

Out[16]=



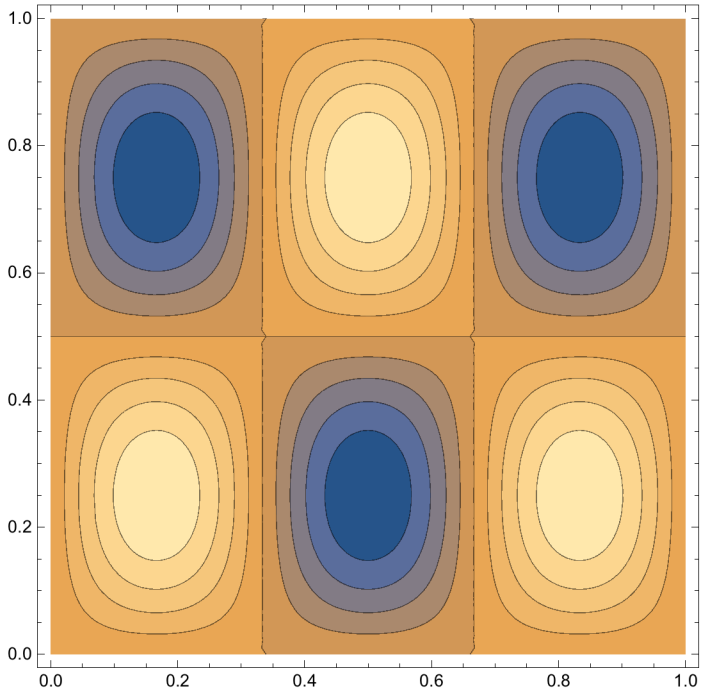
In[10]:=
```
Plot3D[Ez[3, 2, 1, 1, x, y], {x, 0, 1}, {y, 0, 1}]
```

Out[10]=



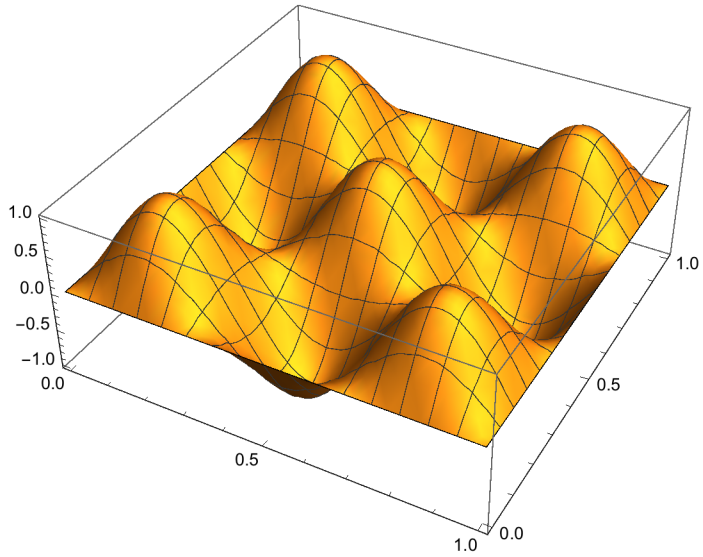
In[17]:=
```
ContourPlot[Ez[3, 2, 1, 1, x, y], {x, 0, 1}, {y, 0, 1}]
```

Out[17]=



In[11]:=
```
Plot3D[Ez[3, 3, 1, 1, x, y], {x, 0, 1}, {y, 0, 1}]
```

Out[11]=



In[18]:=
```
ContourPlot[Ez[3, 3, 1, 1, x, y], {x, 0, 1}, {y, 0, 1}]
```

Out[18]=