

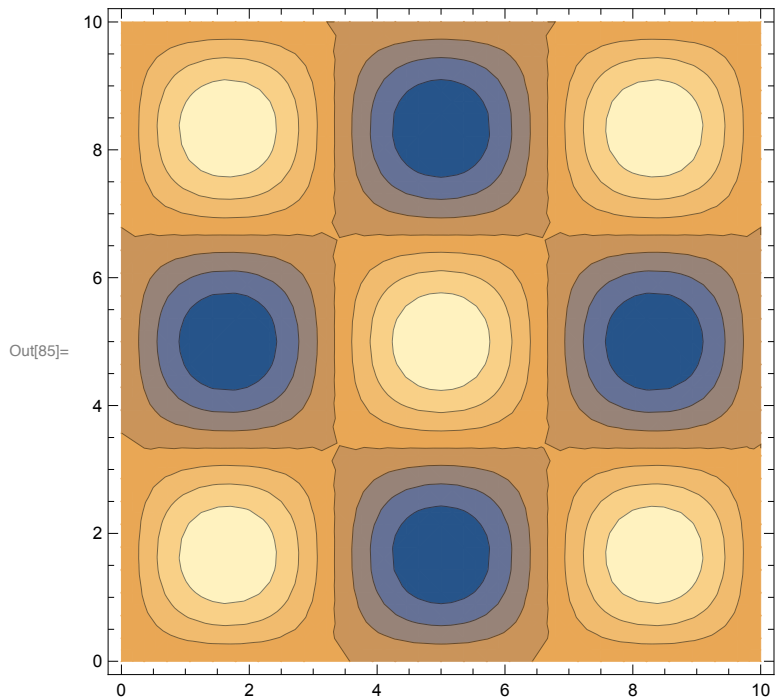
```
In[81]:=  $\psi[x_, nx_] := \sqrt{\frac{2}{L}} * \text{Sin}\left[\frac{nx * \pi}{L} x\right];$ 
```

```
 $\psi[y_, ny_] := \sqrt{\frac{2}{L}} * \text{Sin}\left[\frac{ny * \pi}{L} y\right];$ 
```

```
 $\psi[z_, nz_] := \sqrt{\frac{2}{L}} * \text{Sin}\left[\frac{nz * \pi}{L} z\right];$ 
```

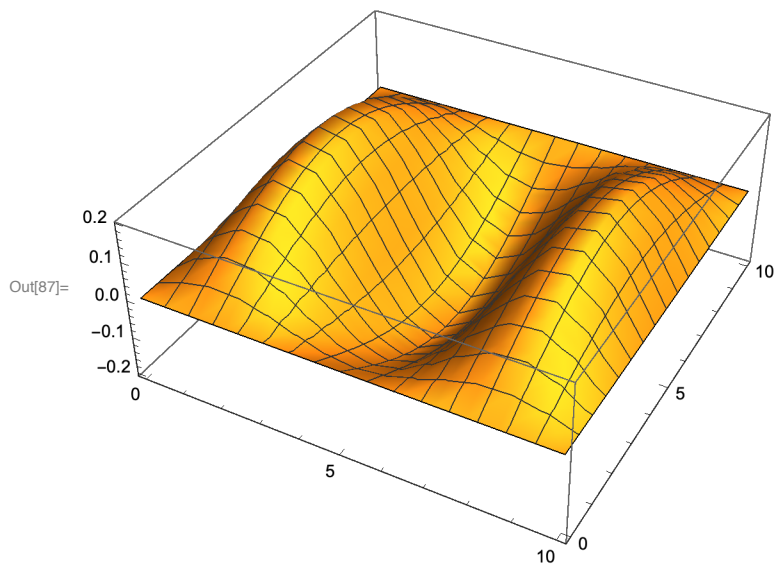
```
L = 10;
```

```
ContourPlot[ $\psi[x, 3] \times \psi[y, 3]$ , {x, 0, 10}, {y, 0, 10}]
```



In[87]:=

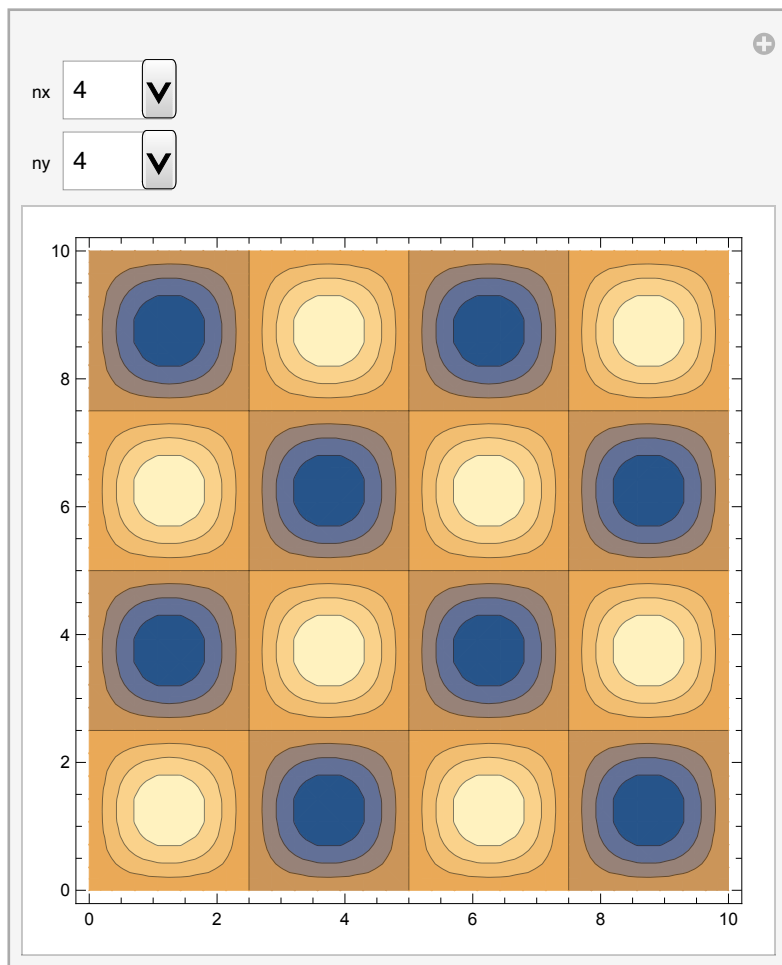
```
Plot3D[ $\psi[x, 3] \times \psi[y, 1]$ , {x, 0, 10}, {y, 0, 10}]
```



In[88]:=

```
Manipulate[ContourPlot[ $\psi[x, nx] \times \psi[y, ny]$ , {x, 0, 10}, {y, 0, 10}],  
{nx, 1, 10, 1}, {ny, 1, 10, 1}, ControlType -> PopupMenu]
```

Out[88]=



In[89]:= `Manipulate[Plot3D[ $\psi[x, nx] \times \psi[y, ny]$ , {x, 0, 10}, {y, 0, 10}],  
{nx, 1, 10, 1}, {ny, 1, 10, 1}, ControlType → PopupMenu]`

Out[89]=

