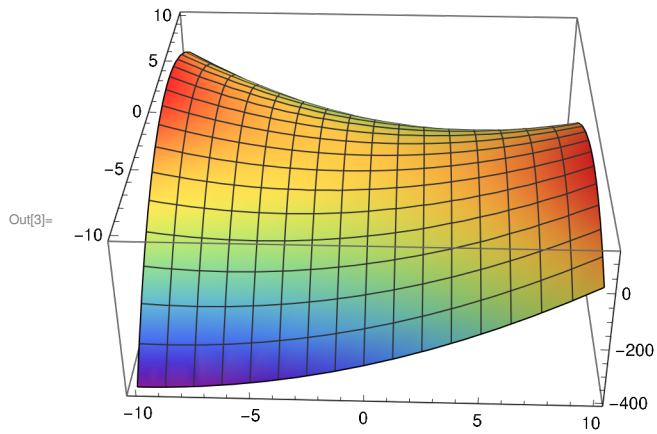


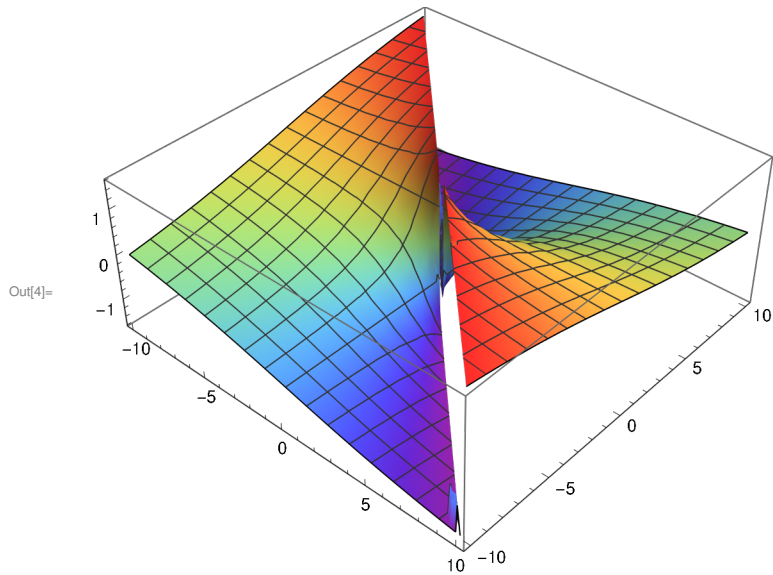
```
In[2]:= SetOptions[Plot3D(*Or whichever plot you desire*),  
ColorFunction -> "Rainbow"(*One of many options*)];
```

(*1*)

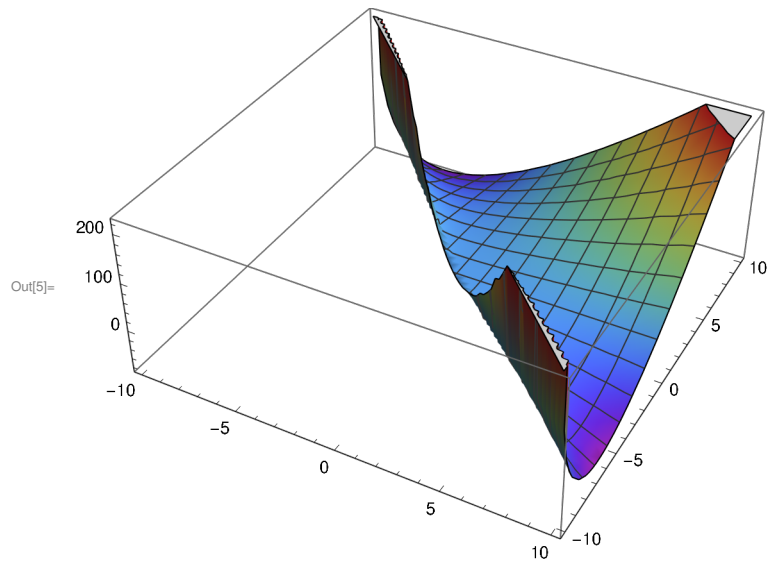
```
In[3]:= Plot3D[x^2 - 2 x * y - 3 y^2, {x, -10, 10}, {y, -10, 10}]
```



```
In[4]:= Plot3D[ArcTan[(x - y) / (x + y)], {x, -10, 10}, {y, -10, 10}]
```

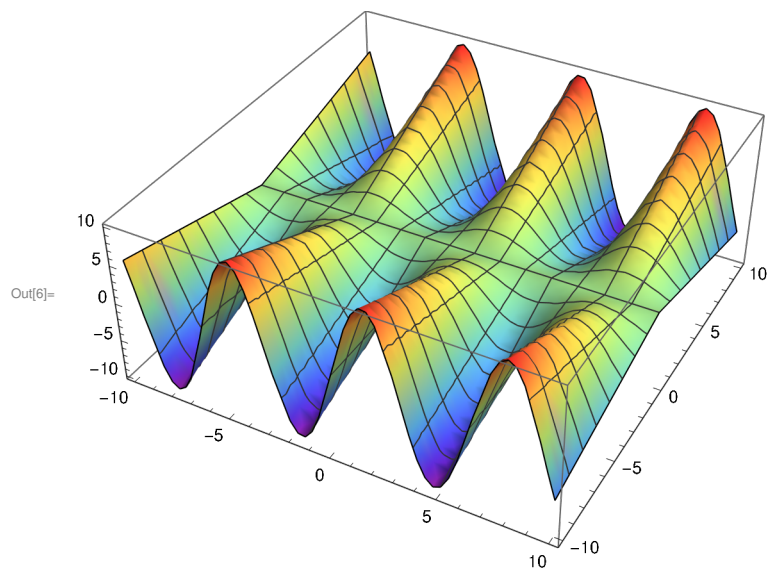


```
In[5]:= Plot3D[x * y * Log[x + y], {x, -10, 10}, {y, -10, 10}]
```

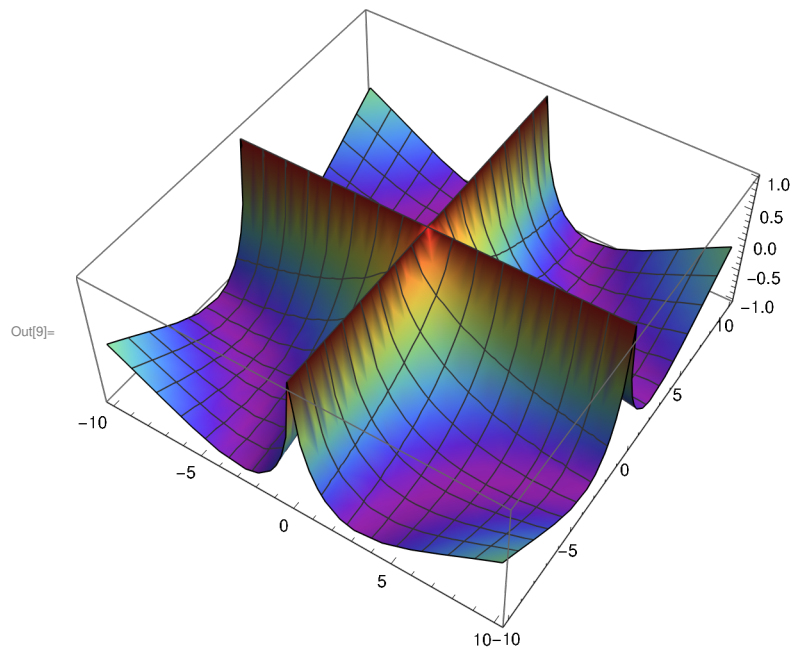


(*2*)

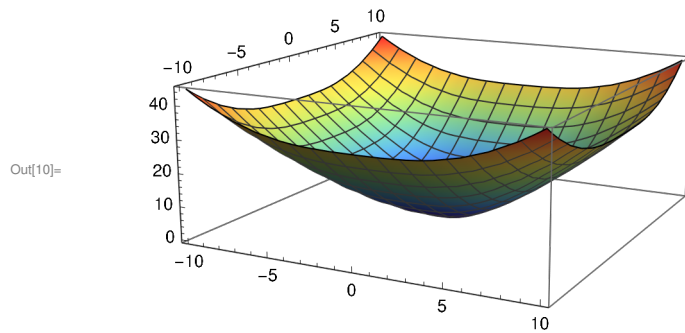
```
In[6]:= Plot3D[Abs[y] Sin[x], {x, -10, 10}, {y, -10, 10}]
```



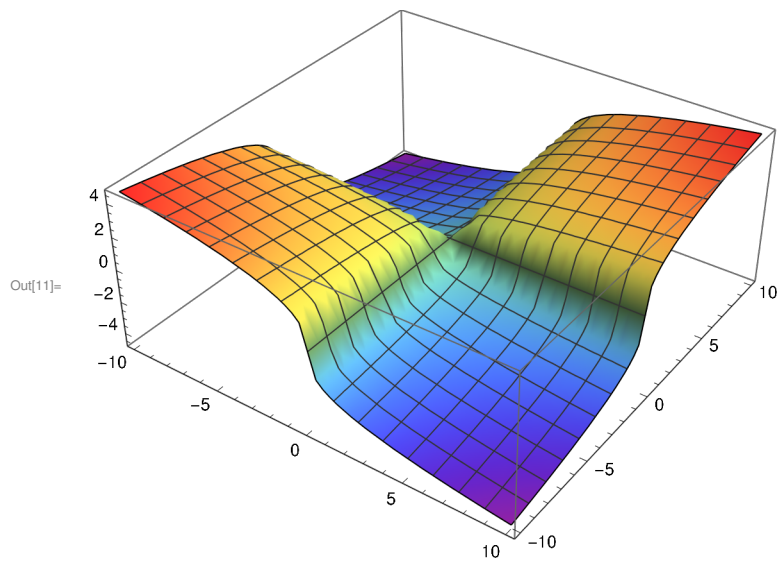
```
In[9]:= Plot3D[Cos[CubeRoot[(x * y)]], {x, -10, 10}, {y, -10, 10}]
```



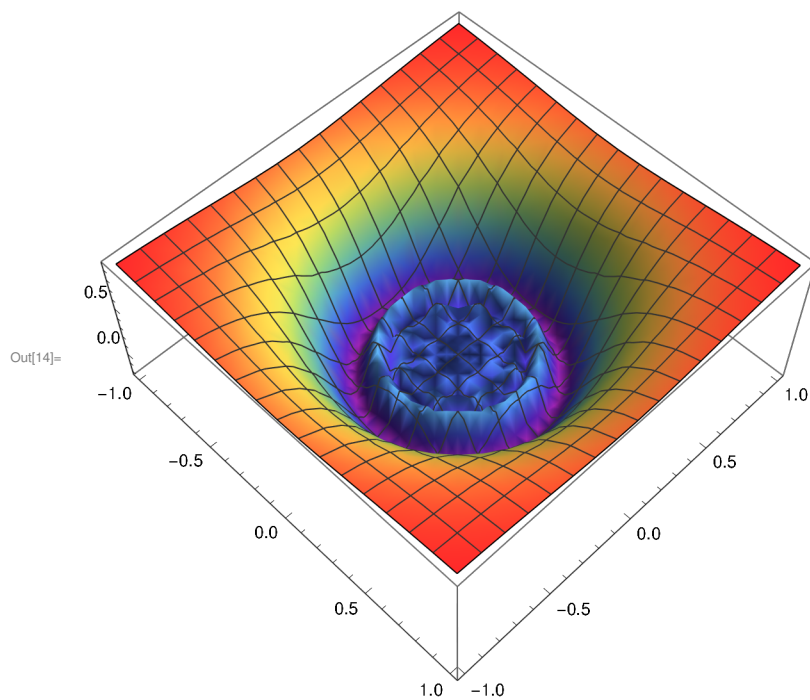
```
In[10]:= Plot3D[Sqrt[Abs[x ^ 3] + Abs[y ^ 3]], {x, -10, 10}, {y, -10, 10}]
```



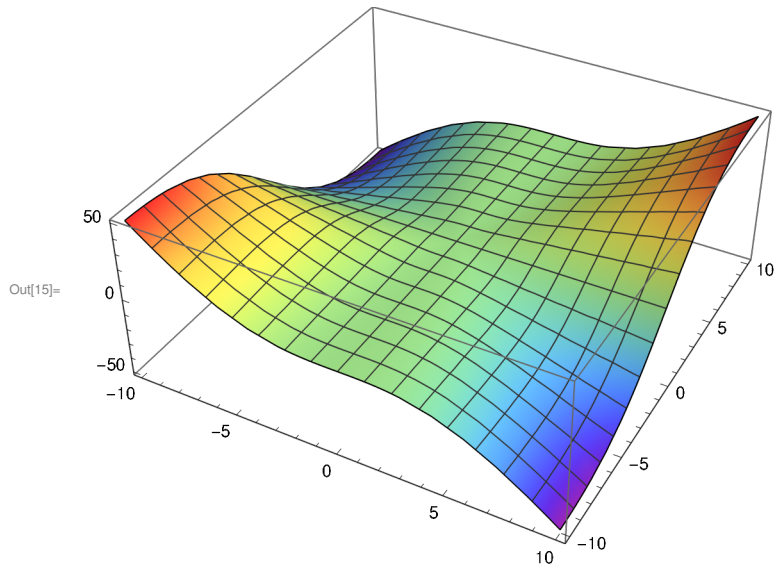
```
In[11]:= Plot3D[CubeRoot[x * y], {x, -10, 10}, {y, -10, 10}]
```



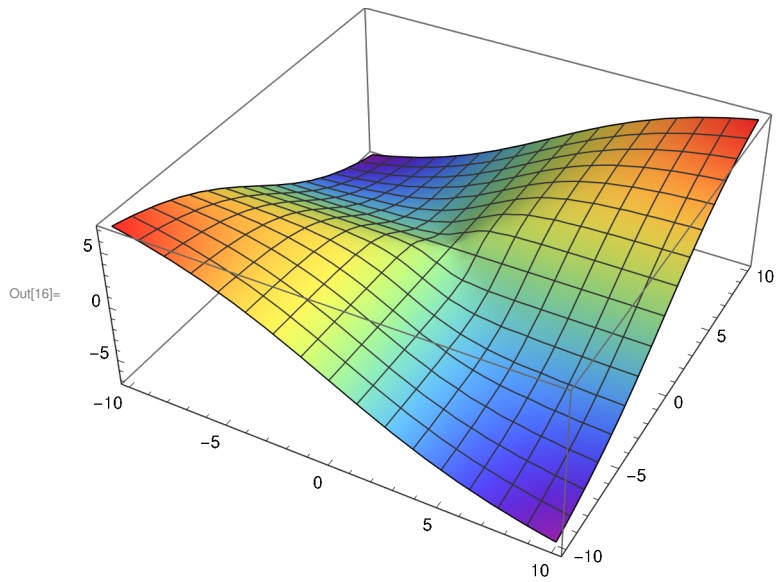
```
In[14]:= Plot3D[(x^2 + y^2) Sin[1/(x^2 + y^2)], {x, -1, 1}, {y, -1, 1}]
```



In[15]:= **(*3*)**
Plot3D[x^3 y/(x^2 + y^2), {x, -10, 10}, {y, -10, 10}]

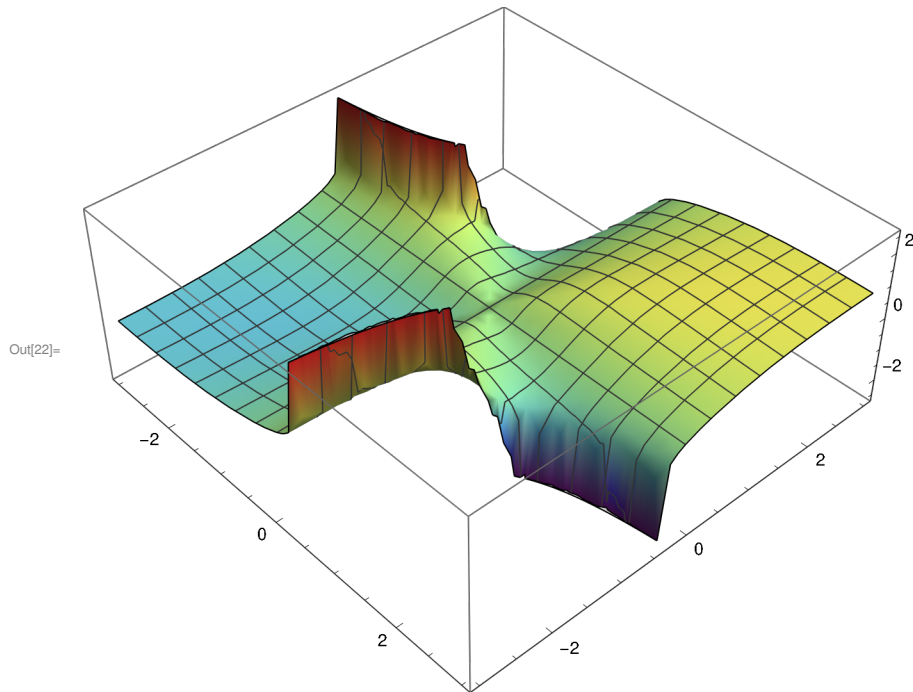


(*4*)
Plot3D[x * y / (Sqrt[x^2 + y^2]), {x, -10, 10}, {y, -10, 10}]



In[22]:= (*5*)

```
Plot3D[(x + y) / (x^2 + y^2) Log[1 + x * y], {x, -3, 3}, {y, -3, 3}]
```



In[23]:= (*6*)

```
Plot3D[(x^2 + y^2), {x, -10, 10}, {y, -10, 10}]
```

