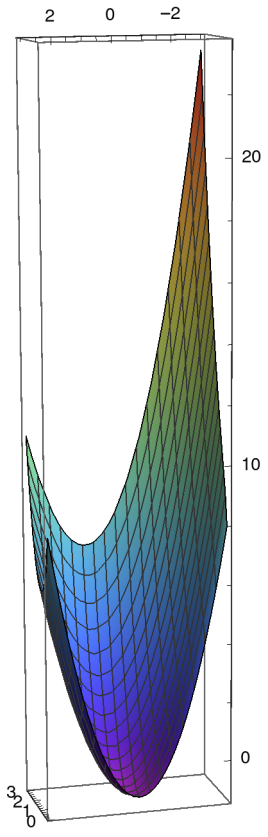
In[9]:=
```
SetOptions[Plot3D(*Or whichever plot you desire*),
  ColorFunction → "Rainbow"(*One of many options*)];
color[{x_, y_}] := Hue[(Pi + Arg[x + y I]) / (2 Pi)];
```

In[11]:=
```
SetOptions[ContourPlot(*Or whichever plot you desire*),
  ContourStyle → {Red}(*One of many options*)];
SetOptions[ContourPlot3D(*Or whichever plot you desire*),
  ColorFunction → "Rainbow"(*One of many options*)];
color[{x_, y_}] := Hue[(Pi + Arg[x + y I]) / (2 Pi)];
```

```
(* Uvod *)
```

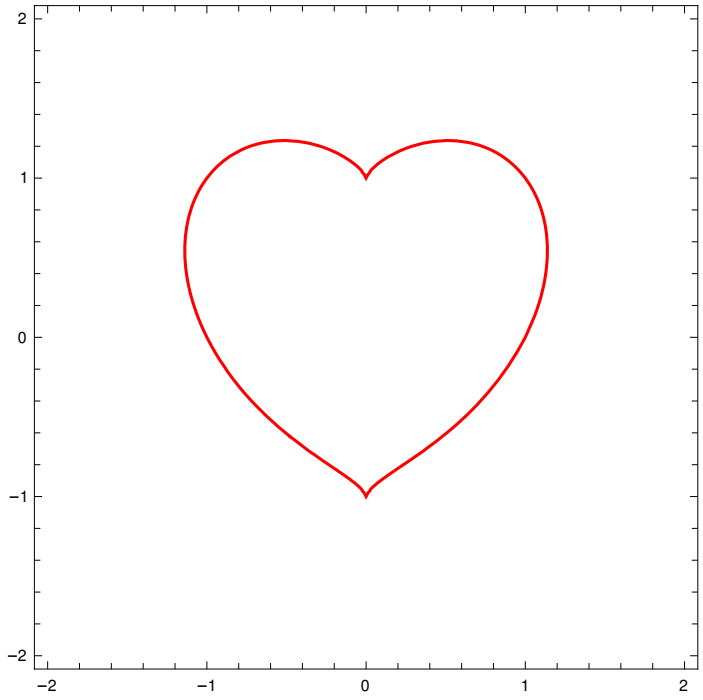
In[14]:=
```
Plot3D[{x^2 + y^2 - 1 - x^(2 / 3) * y}, {x, -3, 3}, {y, -3, 3}, BoxRatios → Automatic]
```

Out[14]=



In[7]:=
```
ContourPlot[x^2 + y^2 - 1 - (x^2)^(1/3) * y == 0, {x, -2, 2}, {y, -2, 2}]
```

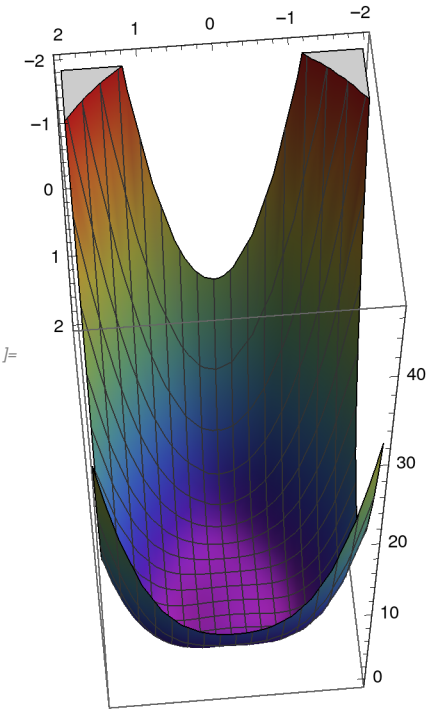
Out[7]=




```
(* 1 *)
```

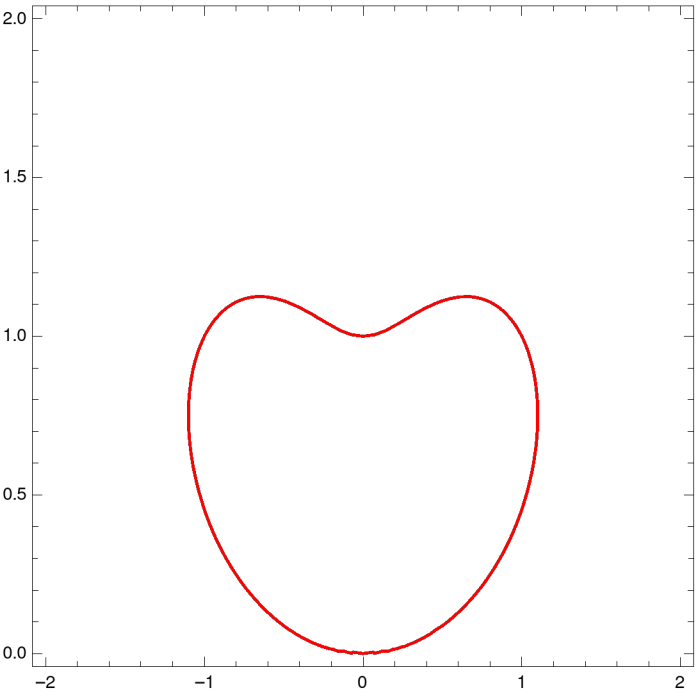
In[ ]:=
```
Plot3D[{(x^2 + y^2)^2 - 3 x^2 y - y^3}, {x, -2, 2}, {y, -2, 2}, BoxRatios → {1, 1, 3}]
```

Out[ ]=



In[ ]:=
```
ContourPlot[(x^2 + y^2)^2 - 3 x^2 y - y^3 == 0, {x, -2, 2}, {y, 0, 2}]
```

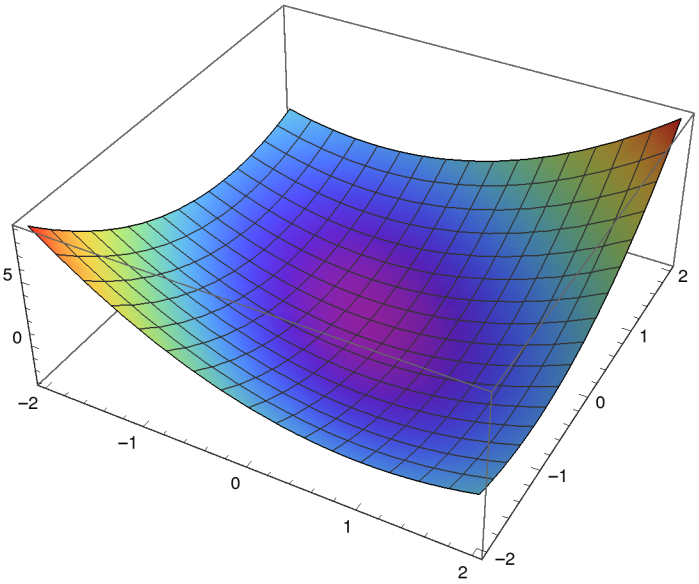
Out[ ]=




```
(* 2 *)
```

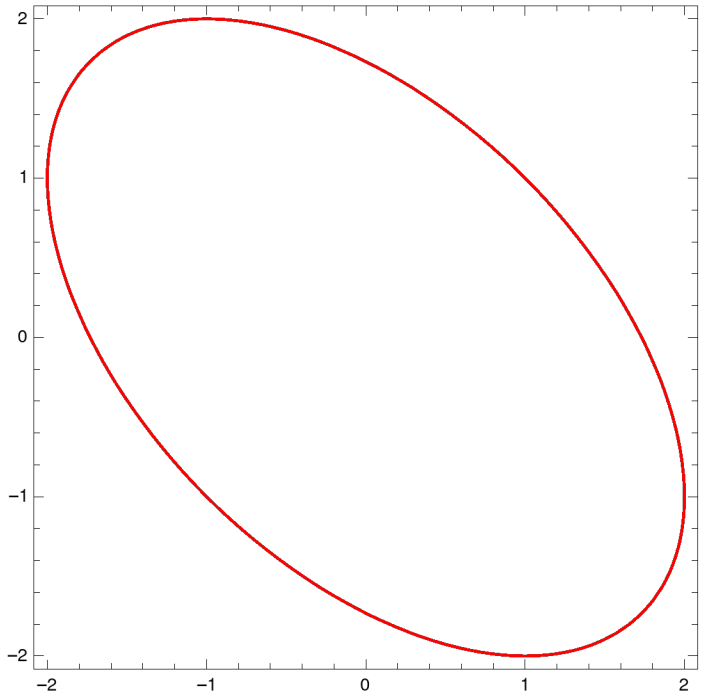
In[ ]:=
```
Plot3D[{x^2 + y^2 + x * y - 3}, {x, -2, 2}, {y, -2, 2}]
```

Out[ ]=



In[ ]:=
```
ContourPlot[x^2 + y^2 + x * y - 3 == 0, {x, -2, 2}, {y, -2, 2}]
```

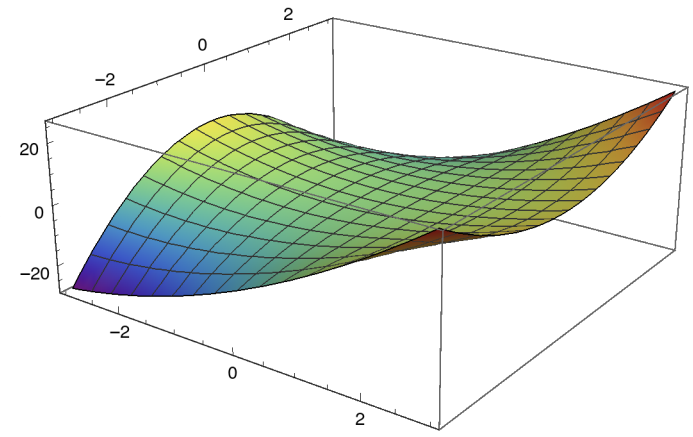
Out[ ]=



In[ ]:=
```
(* 3 *)
p := x^2 + x * y^2 - y^2 - 1
```

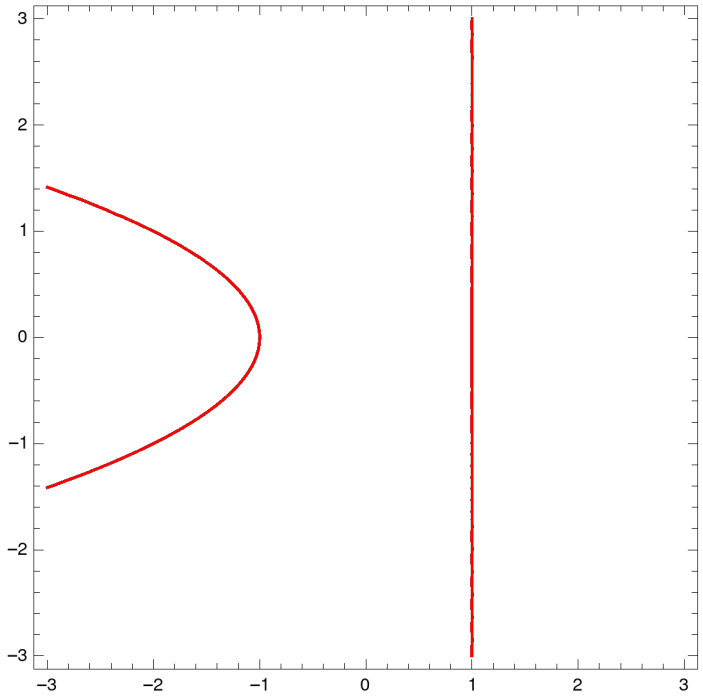
In[ ]:=
```
Plot3D[{p}, {x, -3, 3}, {y, -3, 3}]
```

Out[ ]=



In[ ]:=
```
ContourPlot[p == 0, {x, -3, 3}, {y, -3, 3}]
```

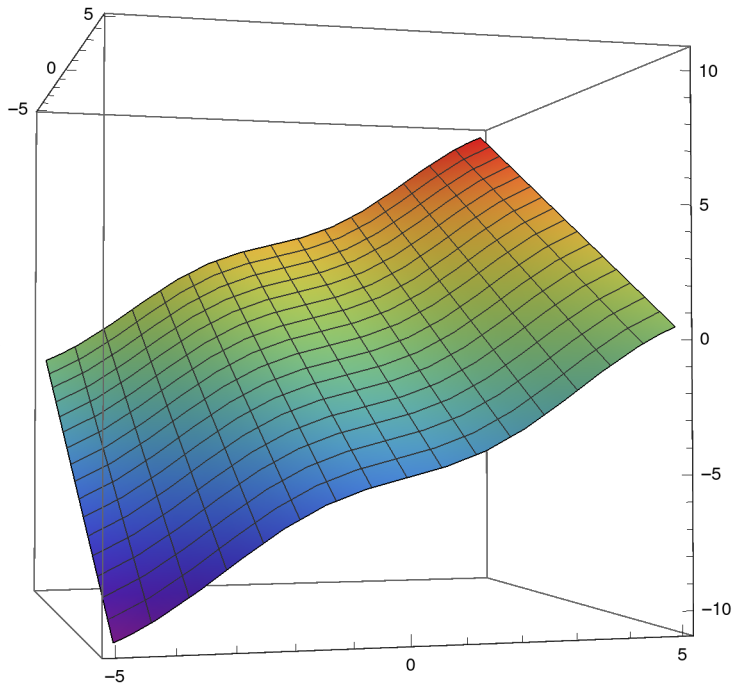
Out[ ]=




```
(* 4, 5 *)
p := y - 1 / 2 * Sin[y] - x
```

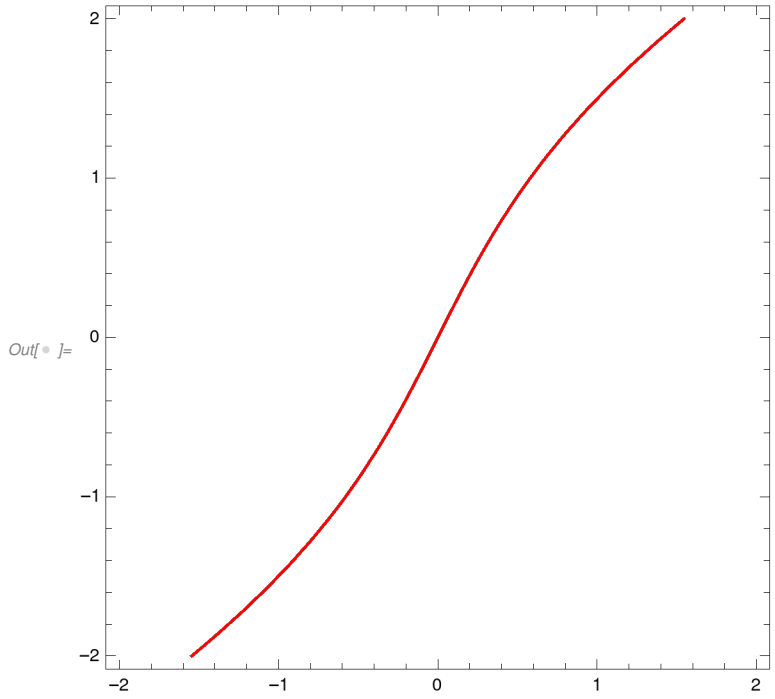
In[ ]:=
```
Plot3D[{p}, {x, -5, 5}, {y, -5, 5}, BoxRatios → {1, 1, 1}]
```

Out[ ]=



In[ ]:=
```
ContourPlot[p == 0, {x, -2, 2}, {y, -2, 2}]
```

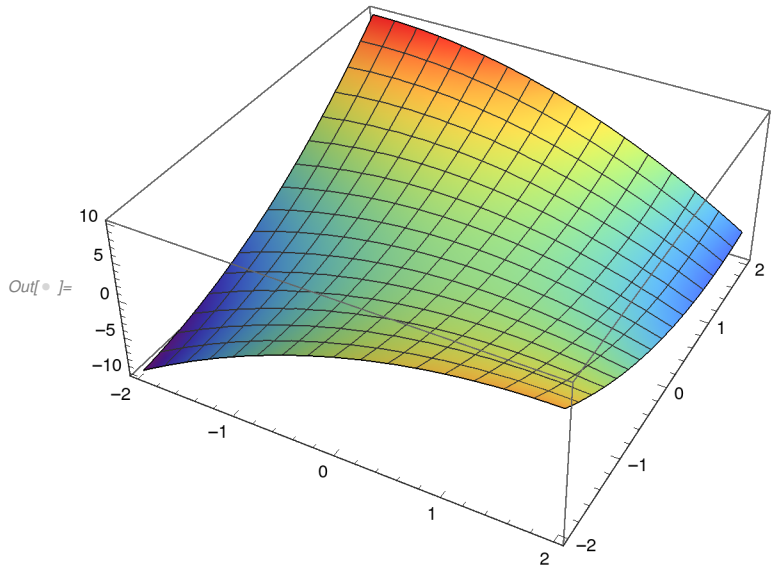
Out[ ]=



In[ ]:=
```
(* 6 *)
p := -x^2 + y^2 - 2 x * y + y
```

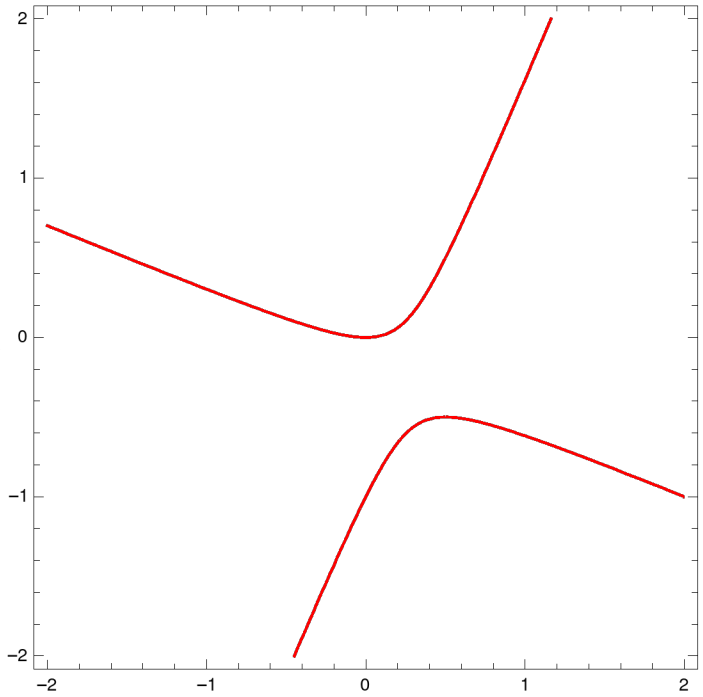
In[ ]:=
```
Plot3D[{p}, {x, -2, 2}, {y, -2, 2}]
```

Out[ ]=



In[ ]:=
```
ContourPlot[p == 0, {x, -2, 2}, {y, -2, 2}]
```

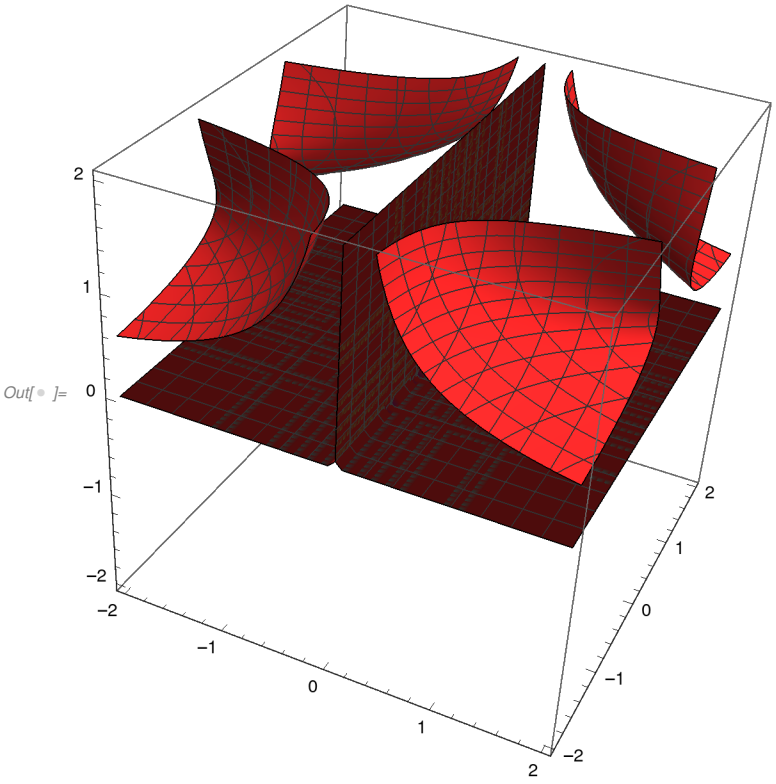
Out[ ]=




```
(* 7 *)
```

In[ ]:=
```
ContourPlot3D[Log[x^2 * z^3] - Exp[z * Cos[y]] + 1 == 0, {x, -2, 2}, {y, -2, 2}, {z, -2, 2}]
```

Out[ ]=



In[ ]:=
```
(*  8  *)
p := z + Exp[z] = x * y + 2
```

In[ ]:=
```
ContourPlot3D[p == 0, {x, -2, 2}, {y, -2, 2}, {z, -2, 2}]
```

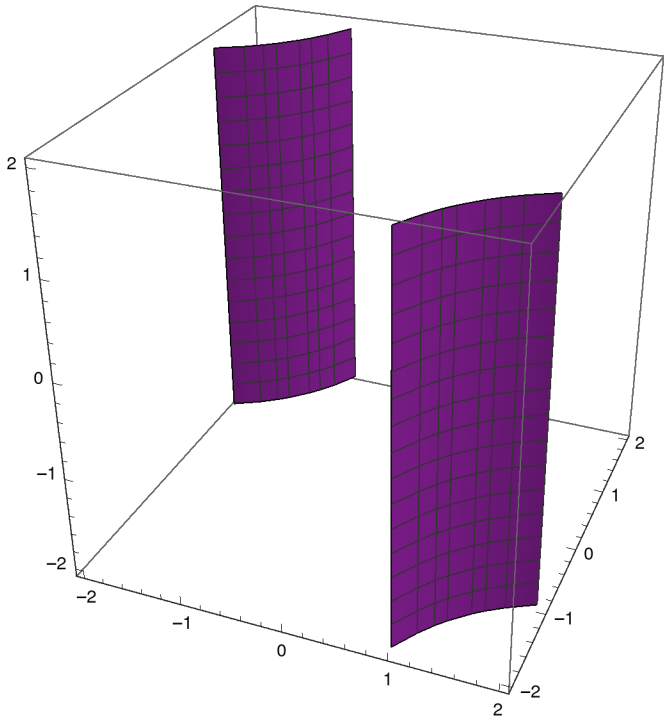
Set: Tag Plus in $e^z + z$ is Protected.

Set: Tag Plus in $e^z + z$ is Protected.

Set: Tag Plus in −1.99971 + 0.135374 is Protected.

General: Further output of Set::write will be suppressed during this calculation.

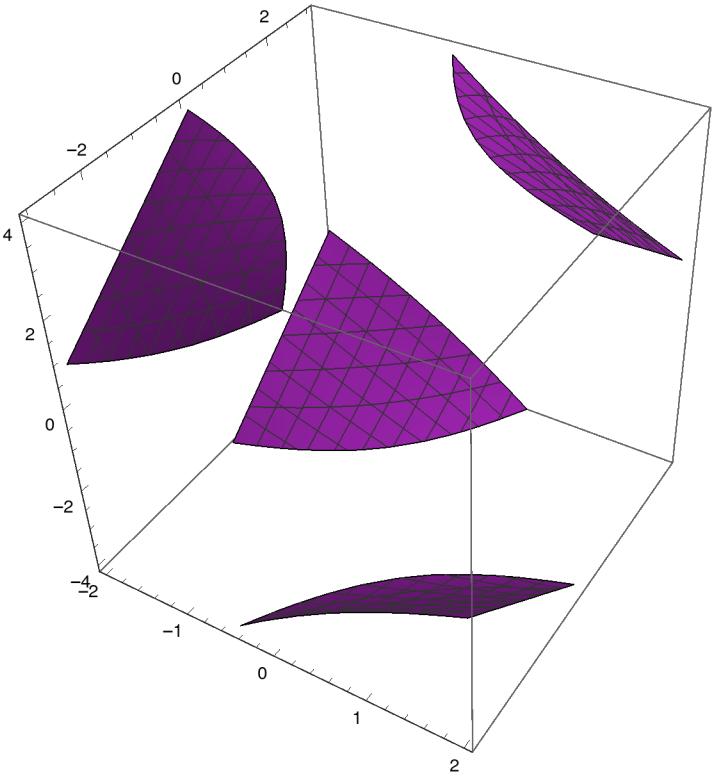
Out[ ]=



In[ ]:=
```
(* 9 *)
p := x^2 + y^2 + z^2 + x * y * z - 20
```

In[ ]:=
```
ContourPlot3D[p == 0, {x, -2, 2}, {y, -3, 3}, {z, -4, 4}]
```

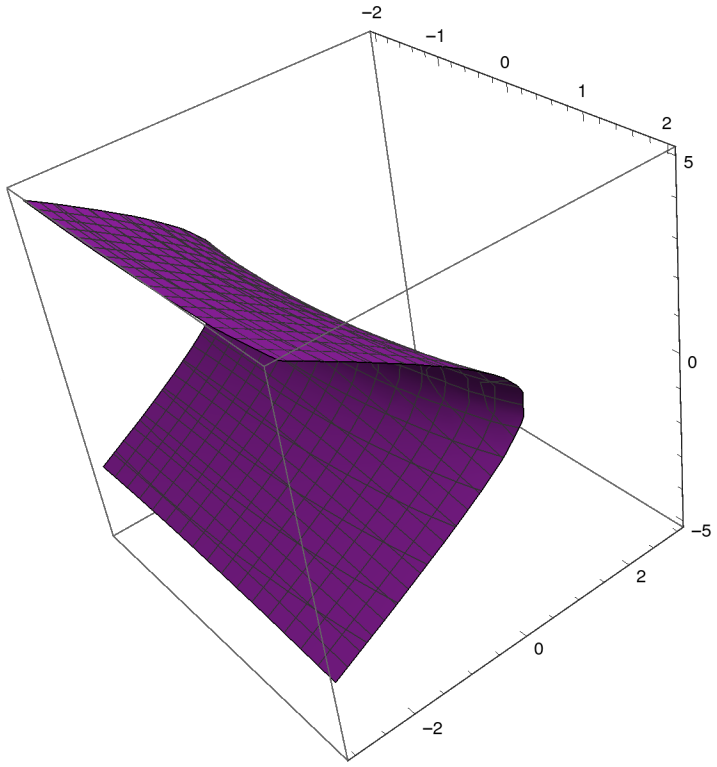
Out[ ]=



In[ ]:=
```
(* 10 *)
p := x^2 + 3 y^2 - 4 z^2 + 2 x - 12 y + 8 z - 7
```

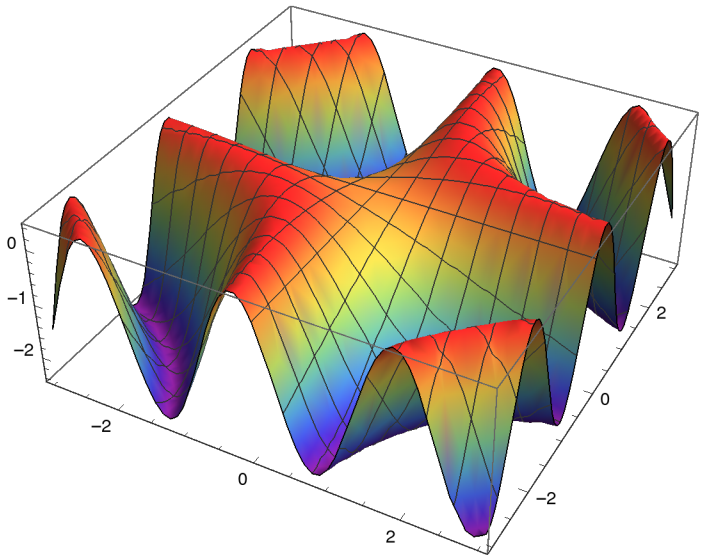
In[ ]:=
```
ContourPlot3D[p == 0, {x, -2, 2}, {y, -3, 3}, {z, -5, 5}]
```

Out[ ]=



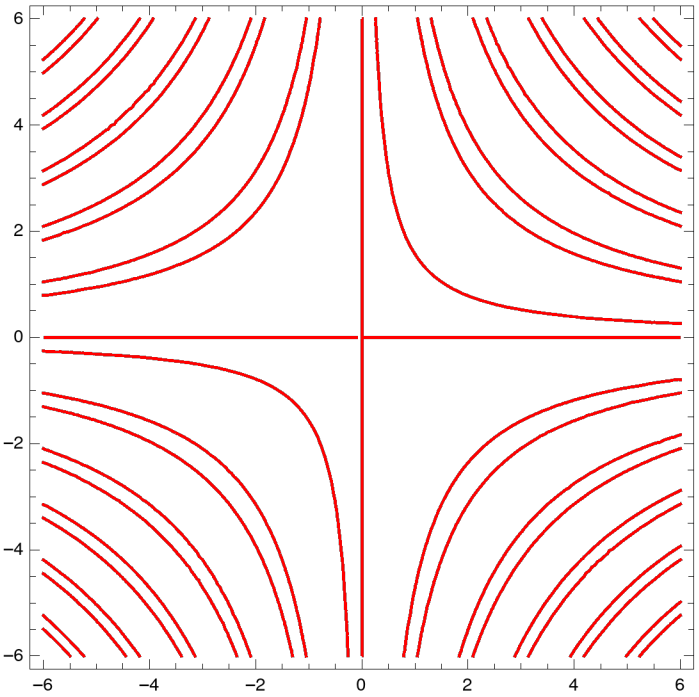

```
(* 11a *)
```

```
Plot3D[{Sin[x * y] + Cos[x * y] - 1}, {x, -3, 3}, {y, -3, 3}]
```



In[ ]:=
```
ContourPlot[Sin[x * y] + Cos[x * y] - 1 == 0, {x, -6, 6}, {y, -6, 6}]
```

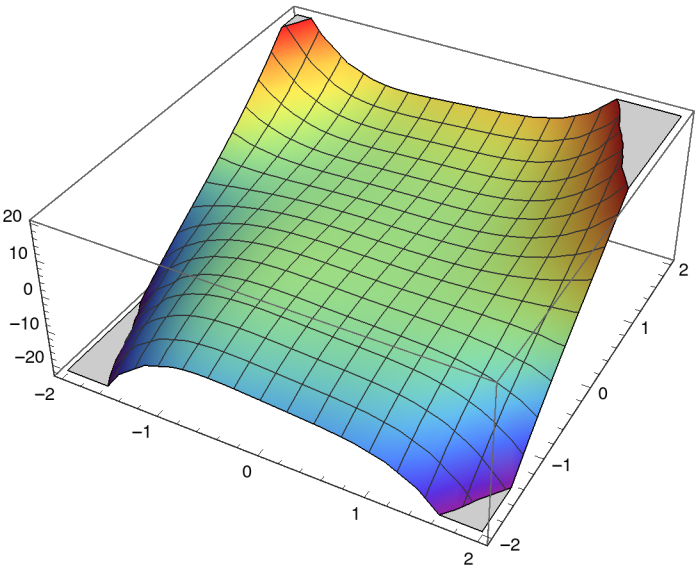
Out[ ]=



In[ ]:=
```
(* 11b *)
p := x^4 * y + x^3 + y^3 + x * y - 1
```

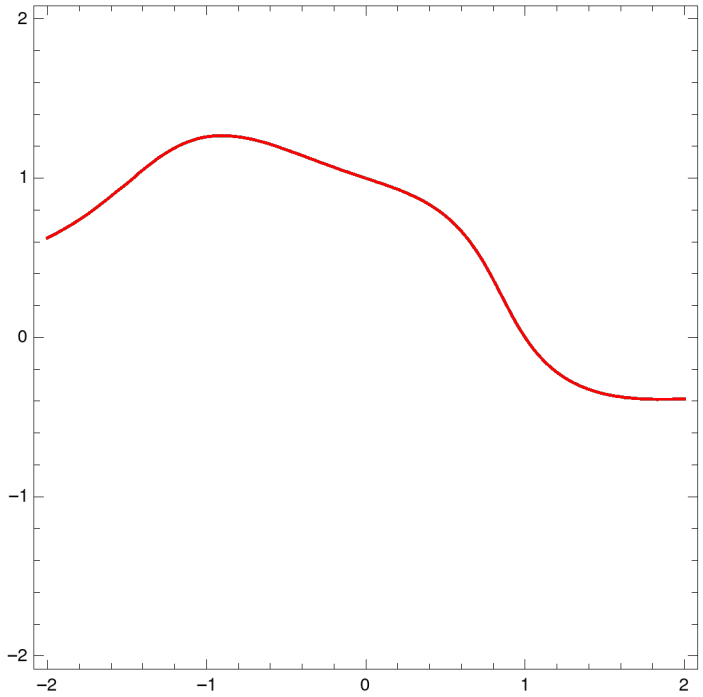
In[ ]:=
```
Plot3D[{p}, {x, -2, 2}, {y, -2, 2}]
```

Out[ ]=



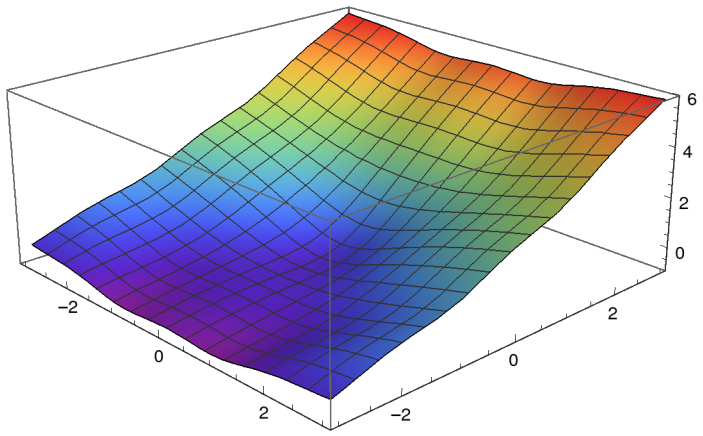
In[ ]:=
```
ContourPlot[p == 0, {x, -2, 2}, {y, -2, 2}]
```

Out[ ]=



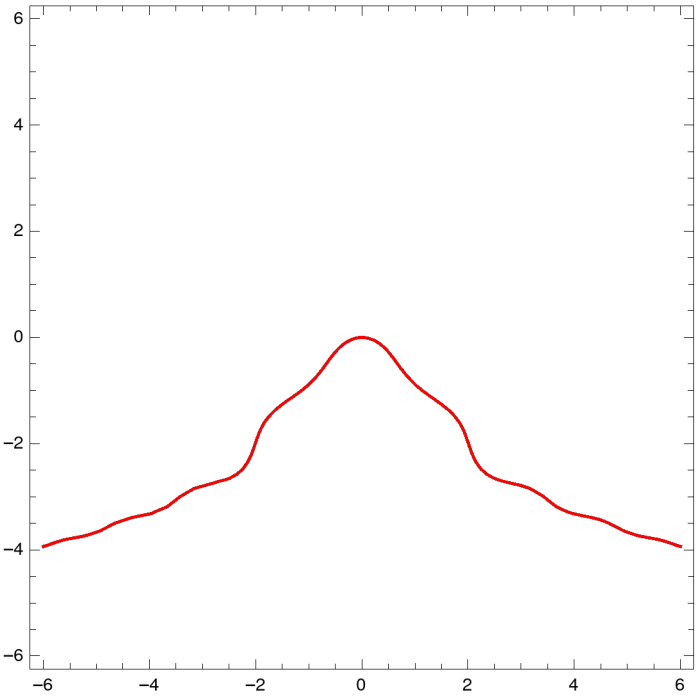

```
(* 11c *)

Plot3D[{Log[x^2 + y^2 + Cos[x * y]] + y}, {x, -3, 3}, {y, -3, 3}]
```



In[ ]:=
```
ContourPlot[Log[x^2 + y^2 + Cos[x * y]] + y == 0, {x, -6, 6}, {y, -6, 6}]
```

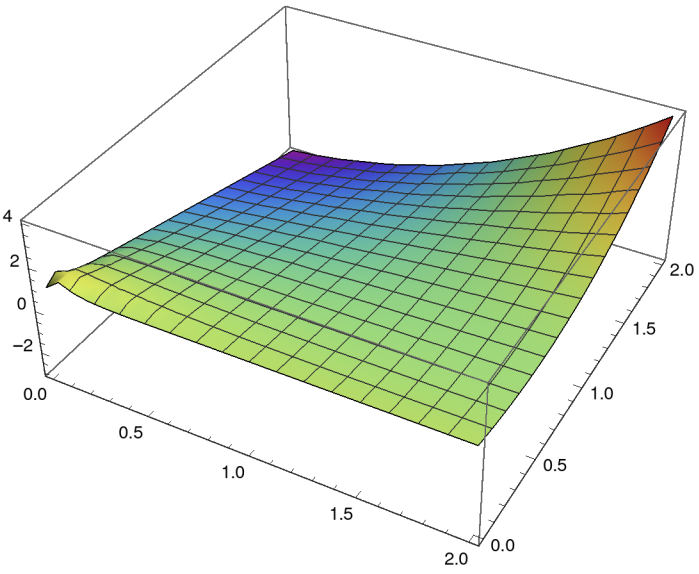
Out[ ]=



In[ ]:=
```
(* 11d *)
p := x^y + y^x - 2 y
```

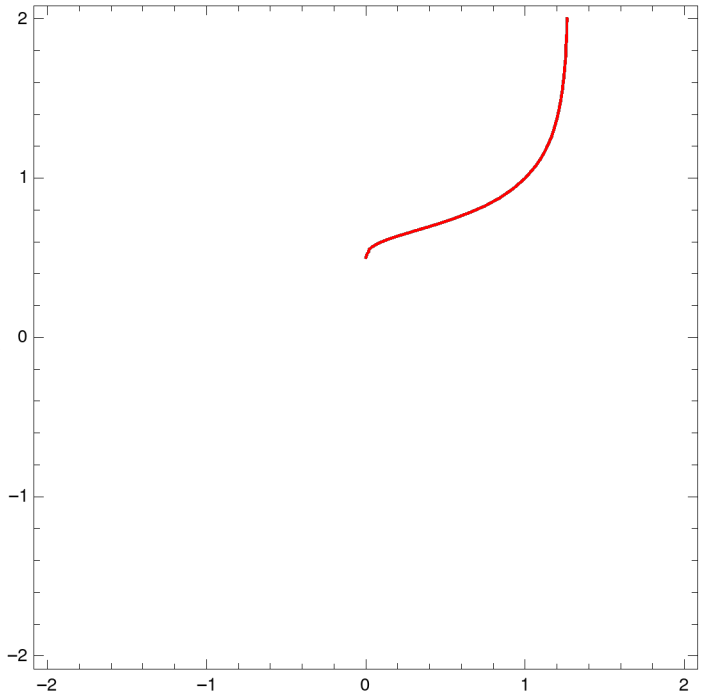
In[ ]:=
```
Plot3D[{p}, {x, -2, 2}, {y, -2, 2}]
```

Out[ ]=



In[ ]:=
```
ContourPlot[p == 0, {x, -2, 2}, {y, -2, 2}]
```

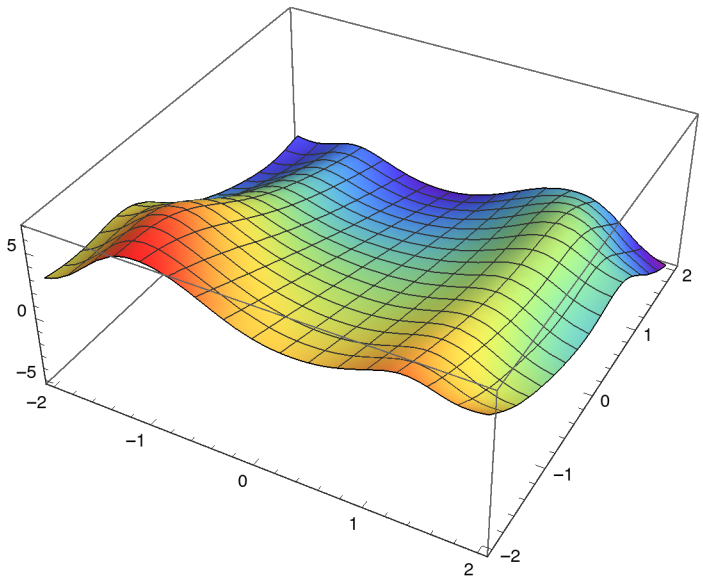
Out[ ]=



In[ ]:=
```
(* 11e *)
p := Exp[Sin[x^2]] + Exp[Sin[x * y]] - 2 y - 2
```

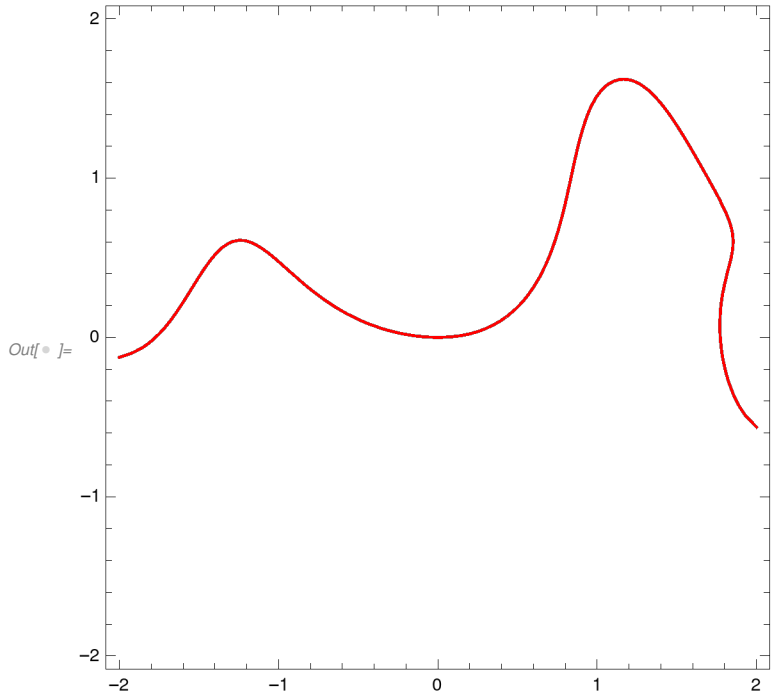
In[ ]:=
```
Plot3D[{p}, {x, -2, 2}, {y, -2, 2}]
```

Out[ ]=



In[ ]:=
```
ContourPlot[p == 0, {x, -2, 2}, {y, -2, 2}]
```

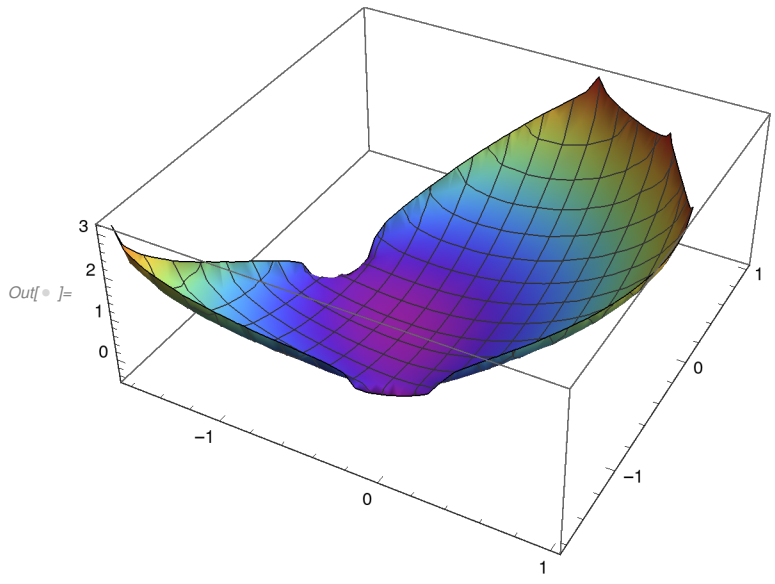
Out[ ]=



In[ ]:=
```
(* 11f *)
p := Pi / 2 + ArcSin[x + y ^ 2] - ArcCos[y + x ^ 2]
```

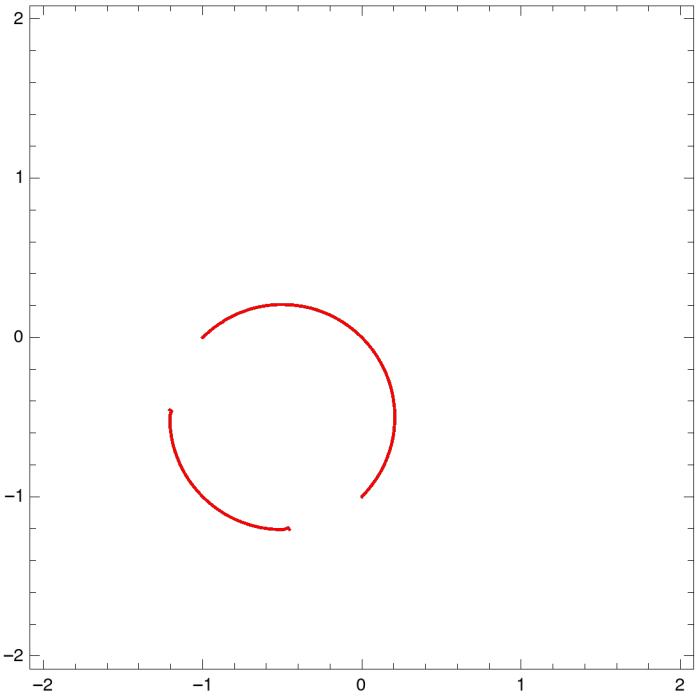
In[ ]:=
```
Plot3D[{p}, {x, -2, 2}, {y, -2, 2}]
```

Out[ ]=



In[ ]:=
```
ContourPlot[p == 0, {x, -2, 2}, {y, -2, 2}]
```

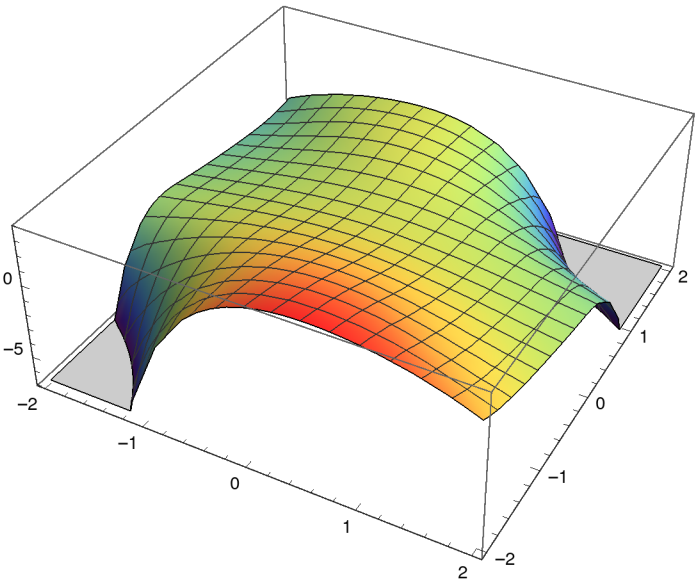
Out[ ]=



In[ ]:=
```
(* 11g *)
p := ArcTan[y ^ 2 + x * y] - Exp[x * y] + Cos[x] - y
```

In[ ]:=
```
Plot3D[{p}, {x, -2, 2}, {y, -2, 2}]
```

Out[ ]=



In[ ]:=
```
ContourPlot[p == 0, {x, -2, 2}, {y, -2, 2}]
```

Out[ ]=