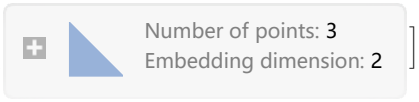
In[ ]:=
```
Clear["Global`*"];
```
清除
```
nodelist = {{0, 0}, {2, 0}, {0, 2}};
tri = Polygon[nodelist];
```
多边形
```
tri
```

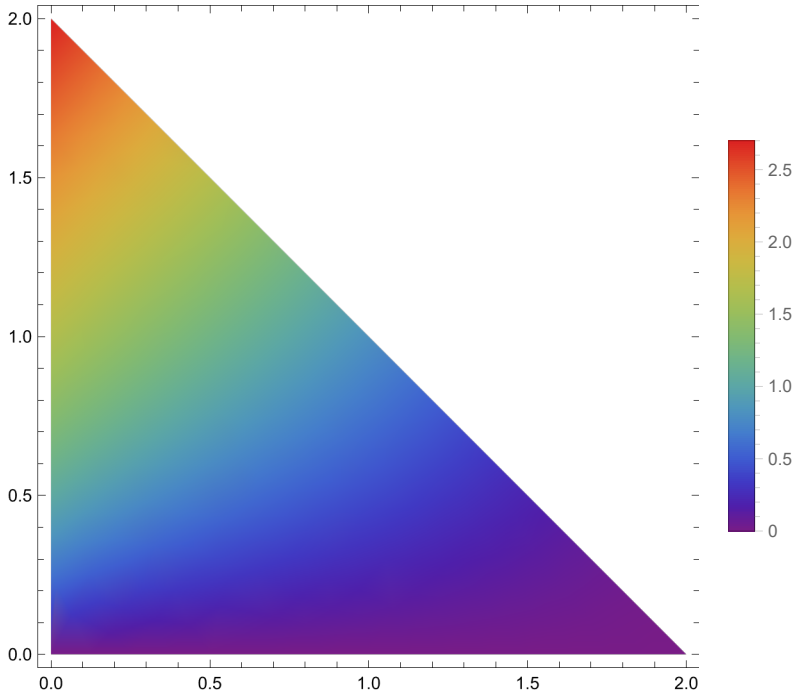
Out[ ]=
```
Polygon[ 
Number of points: 3
Embedding dimension: 2
]
```

In[ ]:=
```
res = NDSolveValue[{-∇²{x,y} u[x, y] ==
```
数值解的值
```
  NeumannValue[1., x == 0],
```
诺伊曼边值
```
 DirichletCondition[u[x, y] == 0., y == 0]}, u, {x, y} ∈
```
狄里克雷条件
```
 tri]
```

Out[ ]=
```
InterpolatingFunction[ 
Domain: {{0., 2.}, {0., 2.}}
Output: scalar
]
```

In[ ]:=
```
figure = DensityPlot[res[x, y], {x, y} ∈ tri,
```
密度图
```
  PlotLegends → Automatic, ColorFunction → "Rainbow"]
```
绘图的图例　自动　颜色函数

Out[ ]=




In[ ]:=
```
Export["..//Desktop//problem1_mma_solution.pdf", figure];
```
导出
```
Export["..//Desktop//problem1_mma_solution.png", figure]
```
导出

Out[ ]=
```
..//Desktop//problem1_mma_solution.png
```