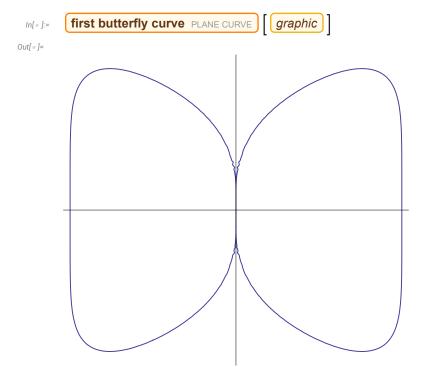
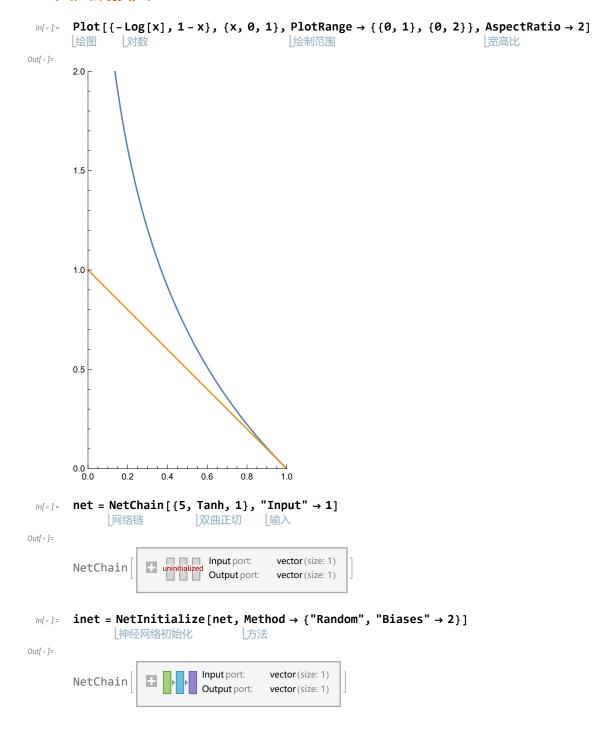
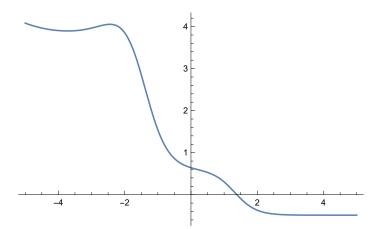
神经网络练习



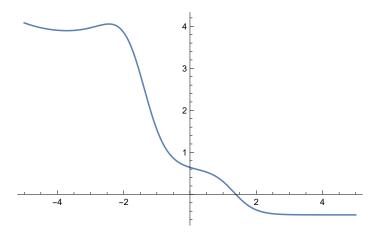
交叉熵损失



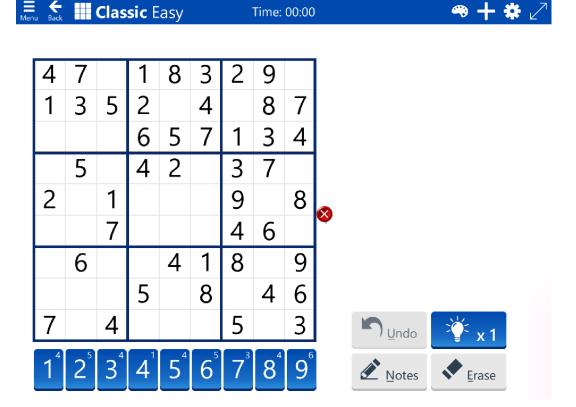
Out[•]=



|n[*]:= Plot[inet[x], {x, -5, 5}] | | | | | |

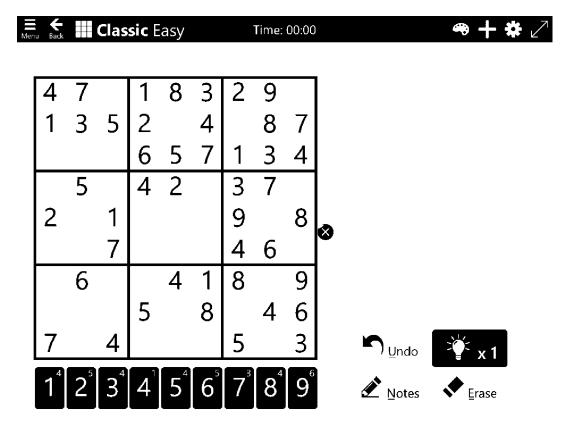


Out[•]=



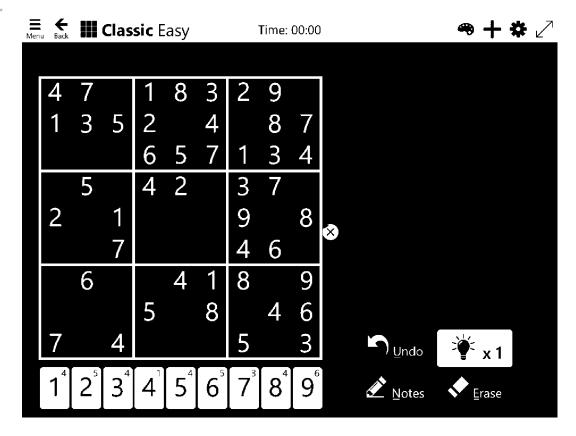
In[*]:= Binarize[img]

一個化



In[•]:= ColorNegate [%41]

图像|彩色负片

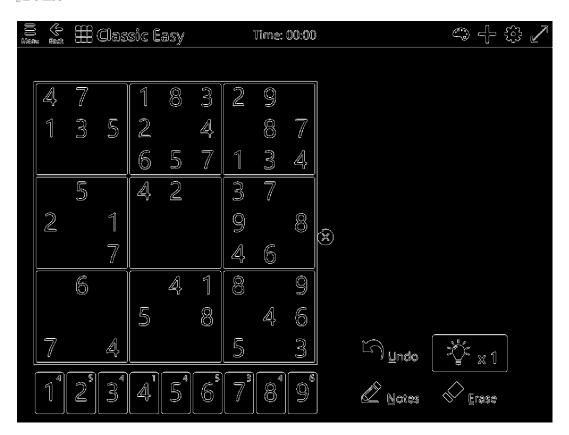


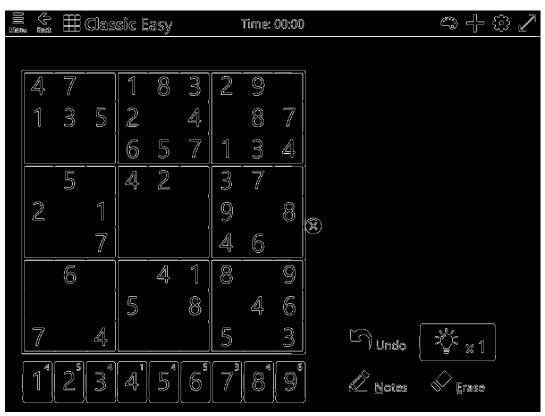
In[@]:= EdgeDetect[ColorNegate@Binarize@img]

EdgeDetect[img]

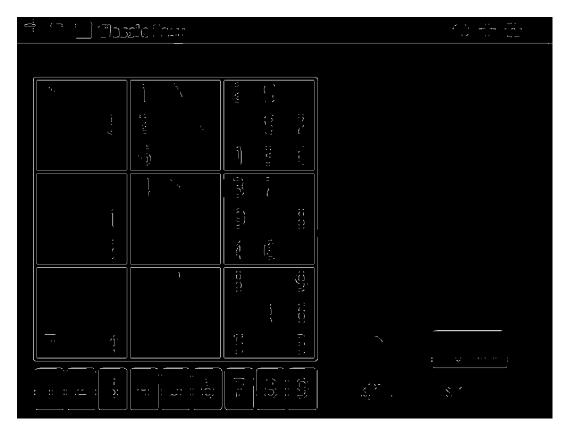
边缘检测

Out[•]=





Out[•]=



| contours = ImageMeasurements[ColorNegate@Binarize@img, "Contours"] | 图像度量 | 图像彩色负片 | 二値化 | 上二値化

Out[•]=

```
      {Line[{{0,900}, {0,841}, {1200,841}, {1200,900}, {0,900}}], ....236...,

      Line[{{1013,43}, {1013,41}, {1024,41}, {1024,43}, {1013,43}}]}

      大型輸出
      显示更少
      显示全部
      设定大小限制...
```

找出点数最多的Line, (但并不是想要的结果)

Length[1[1, 1]]]

长度

Out[•]= 215

找出围成区域面积最大的Line,

```
In[a]:= s = MaximalBy[contours, Area[Region@Polygon[#[1]]] &];
                                  按需找最大值
        Polygon[s[1, 1]]]
       多边形
       Region
       几何区域
Out[ • ]=
                             Number of points: 9
                             Embedding dimension: 2
                             Type: degenerated polygon
        Polygon
                             Bounds: {{17, 41}, {889, 893}}
                             Area: undefined
Out[ • ]=
        Region
                             Number of points: 137
                             Embedding dimension: 2
                             Type: simple polygon
        Polygon
       多边形
                             Bounds: {{483, 509}, {287, 329}}
                             Area: 863
       Area[Polygon@contours[76, 1]]]
 In[ • ]:=
       面积 多边形
Out[ • ]=
       403 860
       Polygon@contours[70, 1]
 In[ • ]:=
Out[ • ]=
                             Number of points: 15
                             Embedding dimension: 2
        Polygon
                             Type: degenerated polygon
                             Bounds: {{90, 92}, {852, 857}}
                             Area: undefined
       Manipulate[HighlightImage[img, contours[i]], {i, 1, Length@contours, 1}]
 In[ • ]:=
       交互式操作 突出显示图像
Out[ • ]=
                                                                                                         0
        面积
```