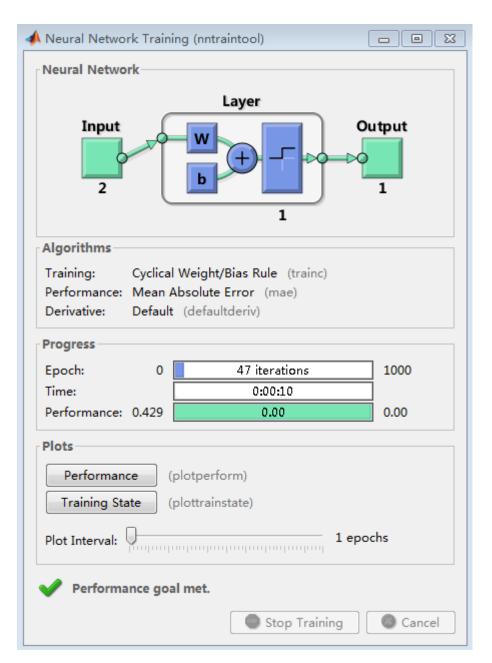
使用 Matlab 或其它神经网络工具包,建立单层感知器,解决薛毅书(纸介质,电子版第 459 页) 第 389 页 例 8.3 建立分类器的问题

解答:

训练模型

```
>> P = [24.8 24.1 26.6 23.5 25.5 27.4 22.1 21.6 22.0 22.8 22.7 21.5 22.1 21.4; -2.0 -2.4 -3.0 -1.9 -
2.1 - 3.1 - 0.7 - 1.4 - 0.8 - 1.6 - 1.5 - 1.0 - 1.2 - 1.3
 24.8000 24.1000 26.6000 23.5000 25.5000 27.4000 22.1000 21.6000 22.0000 22.8000 22.7000 21.5000 21.4000 -2.0000 -2.4000 -3.0000 -1.9000 -1.9000 -2.1000 -3.1000 -0.7000 -1.4000 -0.8000 -1.6000 -1.5000 -1.5000 -1.2000 -1.3000
>> T = [0 0 0 0 0 0 1 1 1 1 1 1 1 1]
T =
          0 0 0 0 0 1 1 1 1 1 1 1 1
>> net = newp([21 28;-4 1],1)
net =
      Neural Network
                   name: 'Custom Neural Network'
              userdata: (your custom info)
       dimensions:
             numInputs: 1
             numLayers: 1
            numOutputs: 1
      numInputDelays: 0
      numLayerDelays: 0
   numFeedbackDelays: 0
   numWeightElements: 3
            sampleTime: 1
```

>> net = train(net, P, T);



带入训练值,看一下训练的结果 都分类正确

```
>> Y = sim(net,P)
Y =
0 0 0 0 0 0 1 1 1 1 1 1 1 1 1
```

画出分类线

- >> figure;
- >> plotpv(P,Y)
- >> plotpc(net.iw{1},net.b{1})

