$$egin{aligned} \sqrt{T} &\leqslant rac{R}{
ho} \cdot rac{oldsymbol{W}_f^T oldsymbol{W}_T}{\|oldsymbol{W}_f\| \|oldsymbol{W}_T\|} \ &= rac{R}{
ho} \cdot \cos \langle oldsymbol{W}_f, oldsymbol{W}_T
angle \ &\leqslant rac{R}{
ho} \end{aligned}$$

因此有

$$T \leqslant \frac{R^2}{
ho^2}$$

5, 假 设 训 练 样 本 集 为 D = $\{(\vec{x}_1, y_1) = ((0.2, 0.7)^T, 1), (\vec{x}_2, y_2) = ((0.3, 0.3)^T, 1), (\vec{x}_3, y_3) = ((0.4, 0.5)^T, 1), (\vec{x}_4, y_4) = ((0.6, 0.5)^T, 1), (\vec{x}_5, y_5) = ((0.1, 0.4)^T, 1), (\vec{x}_6, y_6) = ((0.4, 0.6)^T, -1), (\vec{x}_7, y_7) = ((0.6, 0.2)^T, -1), (\vec{x}_8, y_8) = ((0.7, 0.4)^T, -1), (\vec{x}_9, y_9) = ((0.8, 0.6)^T, -1), (\vec{x}_{10}, y_{10}) = ((0.7, 0.5)^T, -1)\}$,用 Pocket 算法设计分类面。(可借助编程实现,迭代次数最多 10 次,需提交每次迭代的结果)解:略