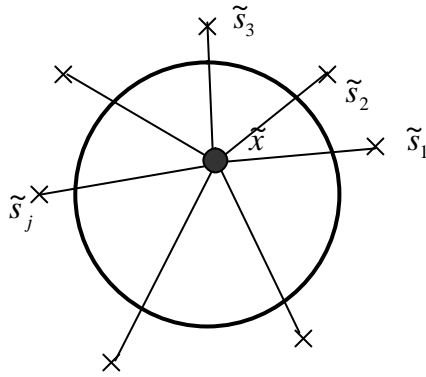


## 程式 55 MFS(內域問題)



Use MFS by the approximation,

$$u(x) = \sum_{j=1}^M c_j \ln |\tilde{x} - \tilde{s}_j|$$

please solve and plot the contour for the Laplace problem with

- (1).  $M = 5$ ,  $u(\mathbf{q}) = \cos(3\mathbf{q})$ ,  $x \in B$
- (2).  $M = 9$ ,  $u(\mathbf{q}) = \cos(3\mathbf{q})$ ,  $x \in B$

### References:

- 【1】吳清森, 林盛益, 林書睿, 陳正宗, On the equivalence of method of fundamental solutions and Trefftz method for Laplace equation, 第十五屆中國造船暨輪機工程研討會, 國立高雄海洋技術學院, 高雄, 2003.