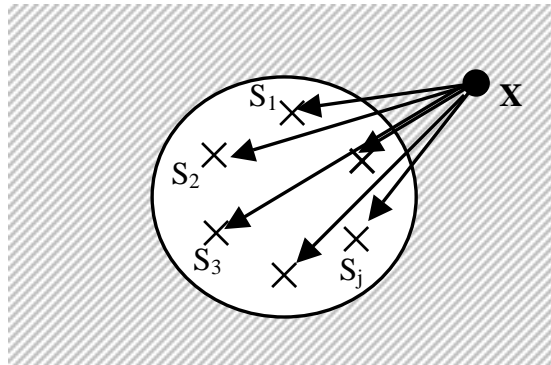Using MFS by the approximation,

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

please solve and plot the contour for the exterior Laplace problem by using

(1). $M = 5$, $u(\theta) = \cos(3\theta)$, $x \in B$

(2). $M = 9$, $u(\theta) = \cos(3\theta)$, $x \in B$