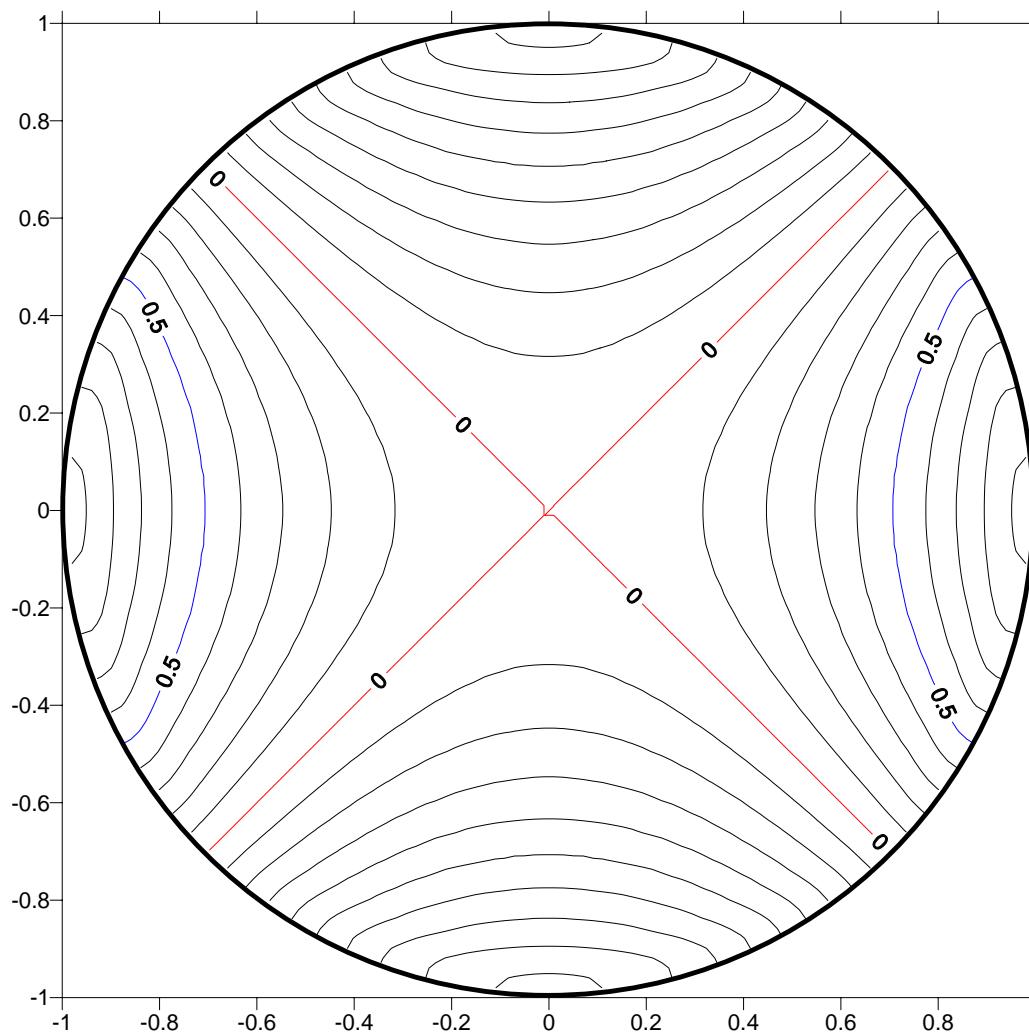
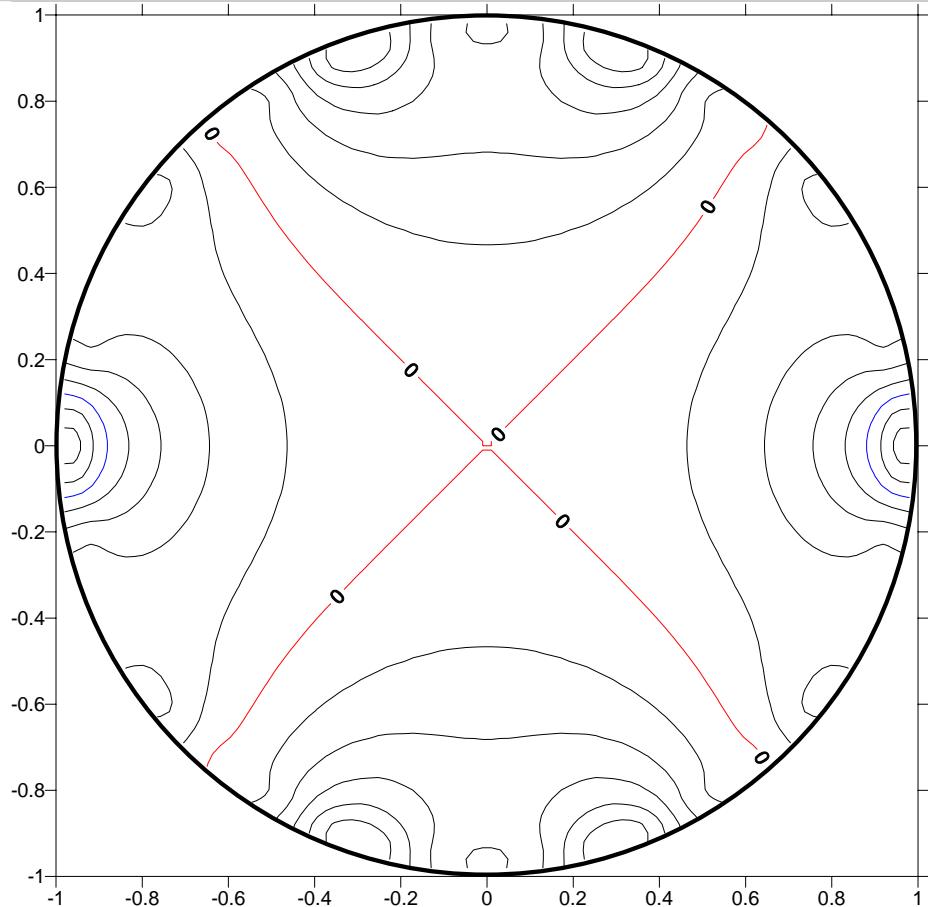


Exact solution $u(x) = \rho^2 \cos(2\phi)$

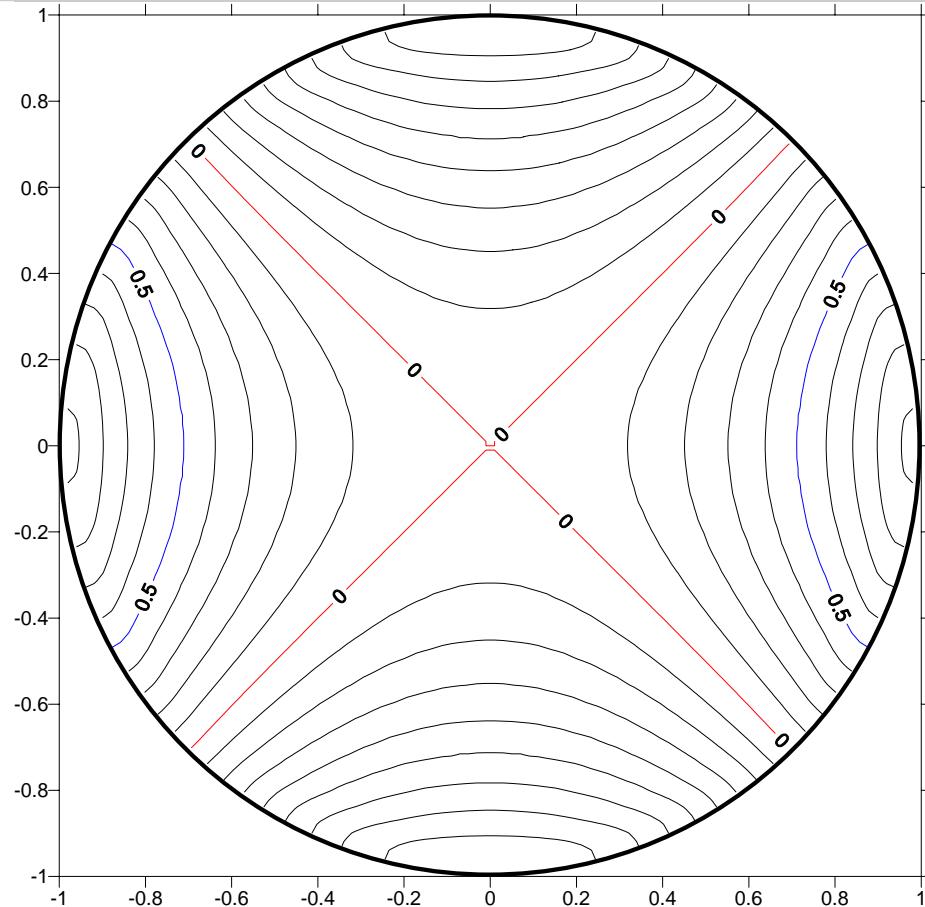


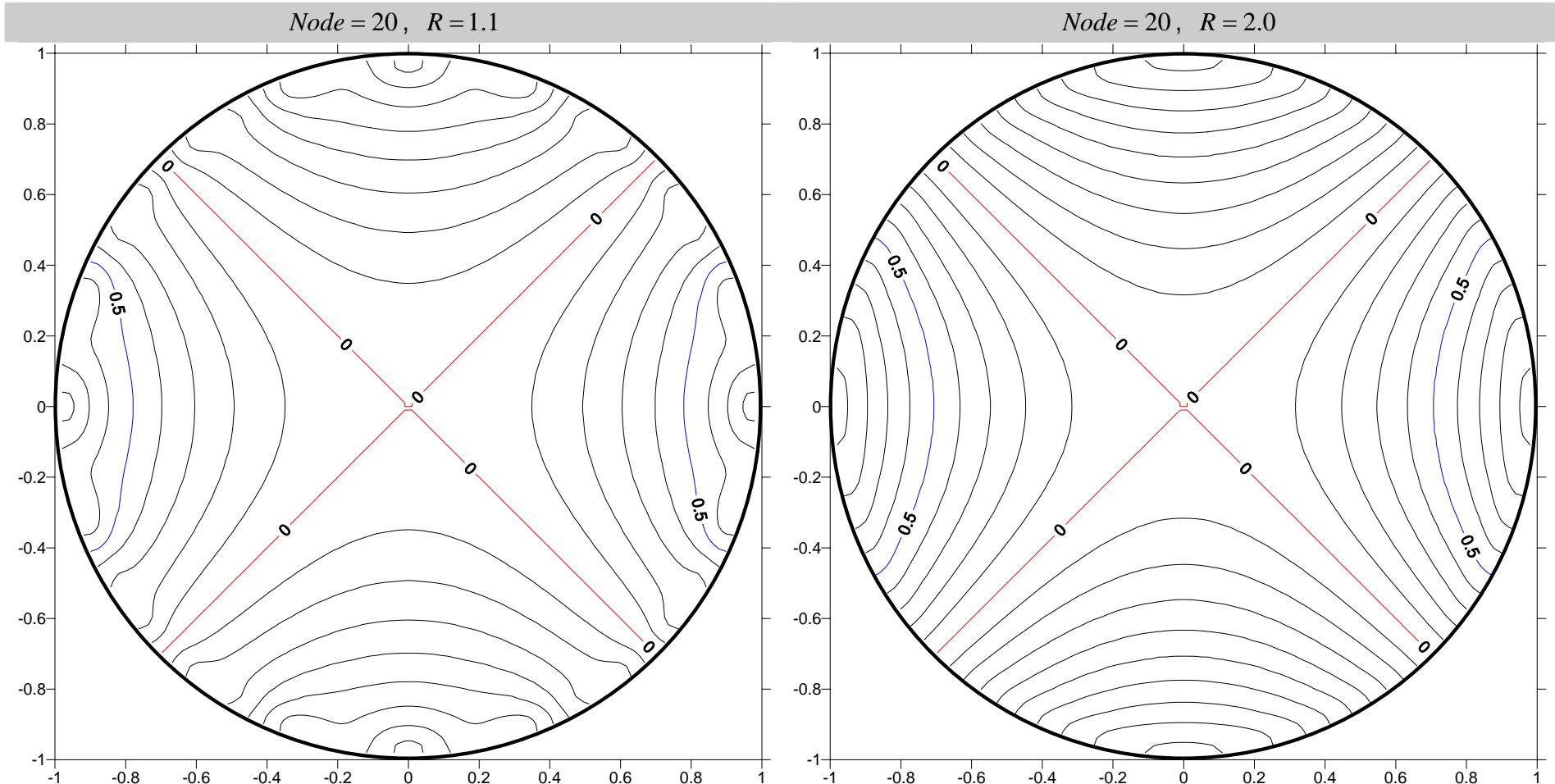
MFS Double layer (Radial) $u(x_i) = \sum T(s_j, x_i) \varphi(s_j), \quad T(s, x) = \frac{1}{R} + \left(\frac{\rho}{R}\right)^m \cos m(\theta - \phi), \quad R > \rho$

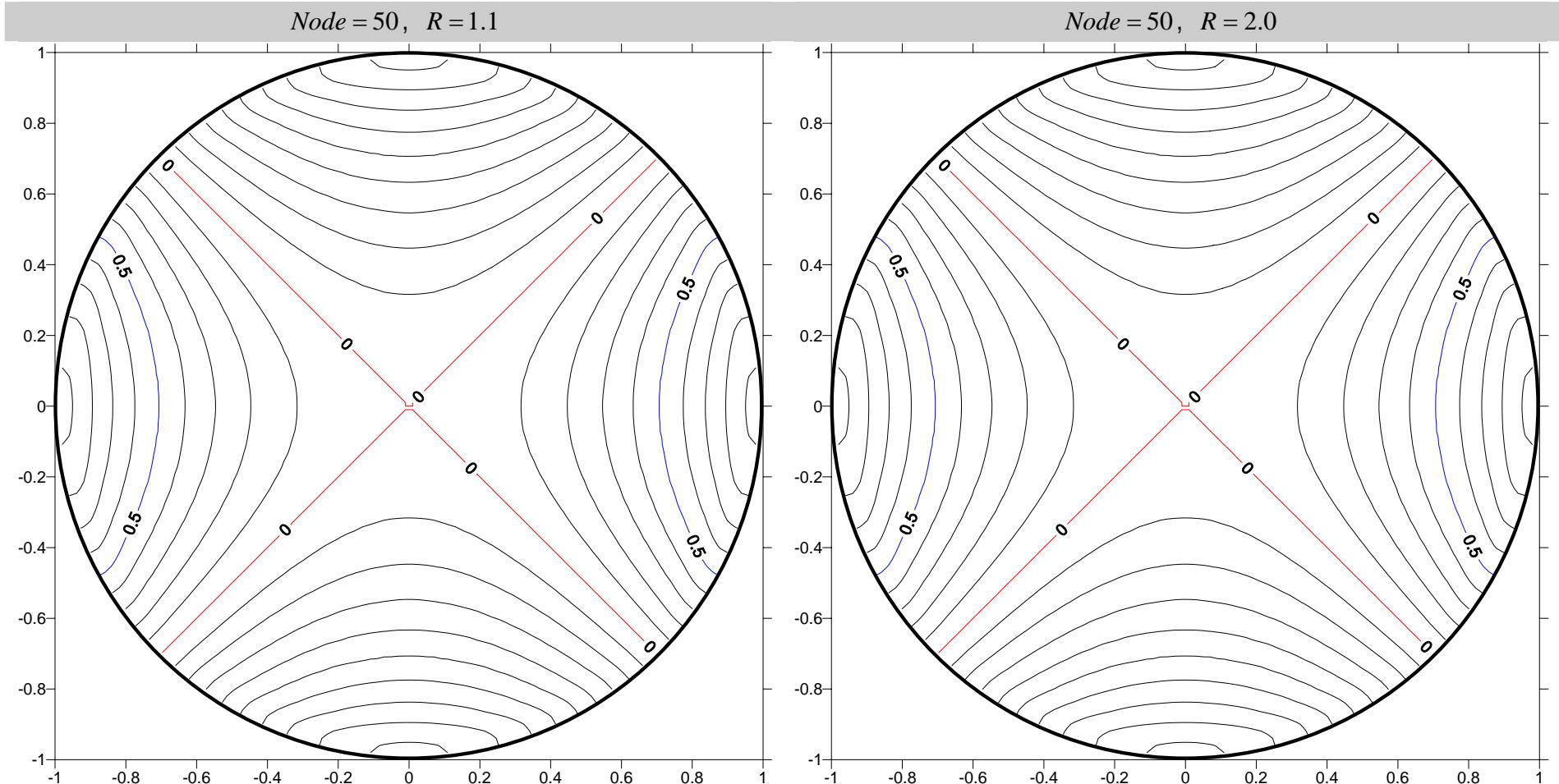
Node = 10, R = 1.1



Node = 10, R = 2.0

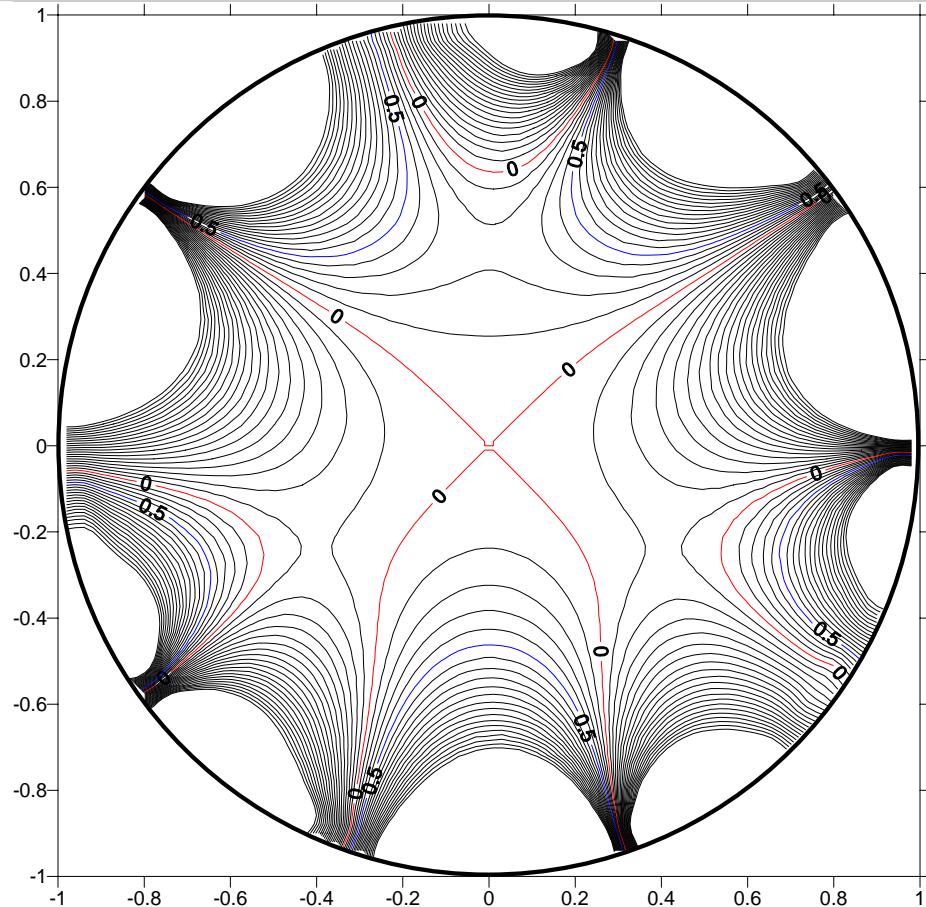




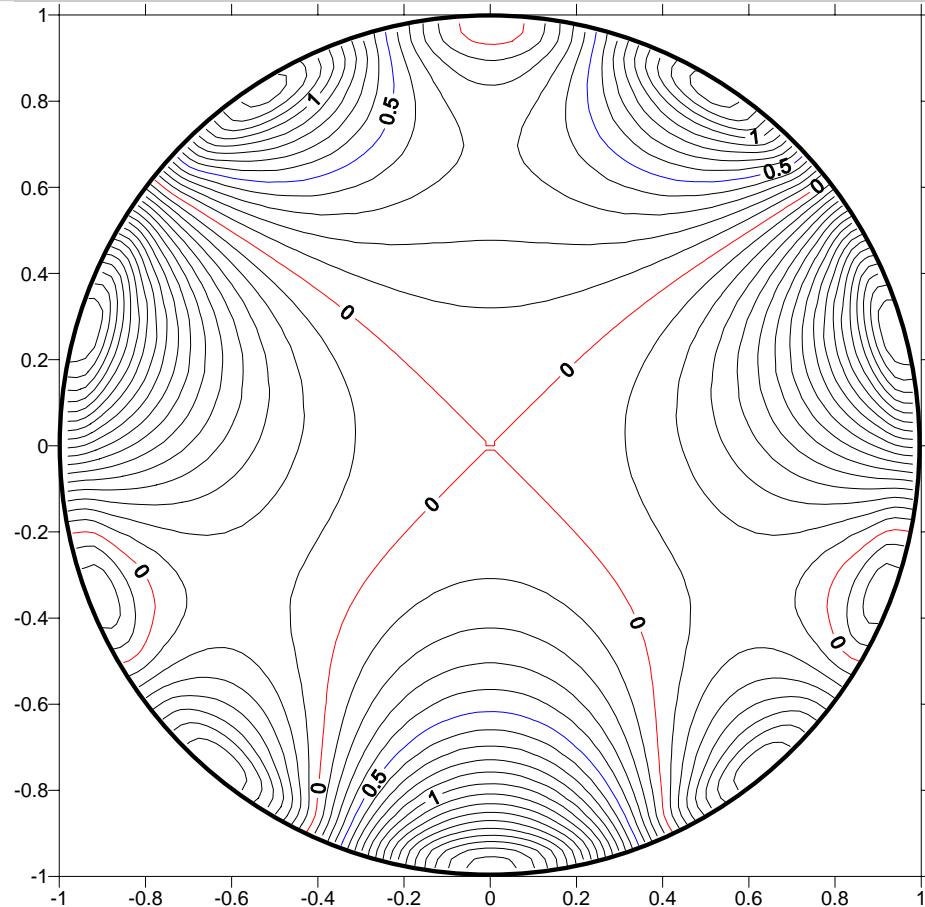


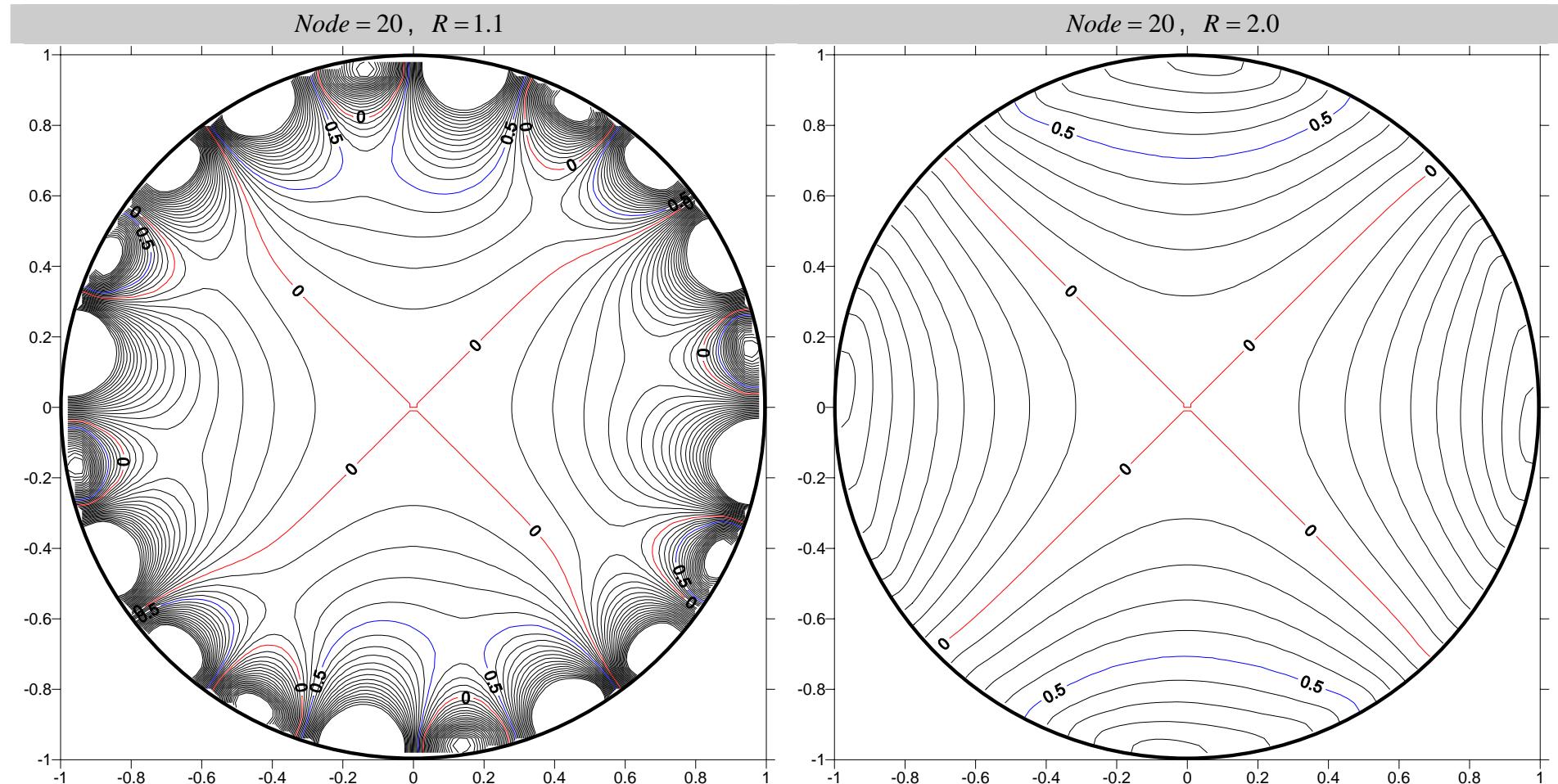
MFS Double layer (Angular) $u(x_i) = \sum T(s_j, x_i) \varphi(s_j)$, $T(s, x) = \left(\frac{\rho}{R}\right)^m \sin m(\theta - \phi)$, $R > \rho$

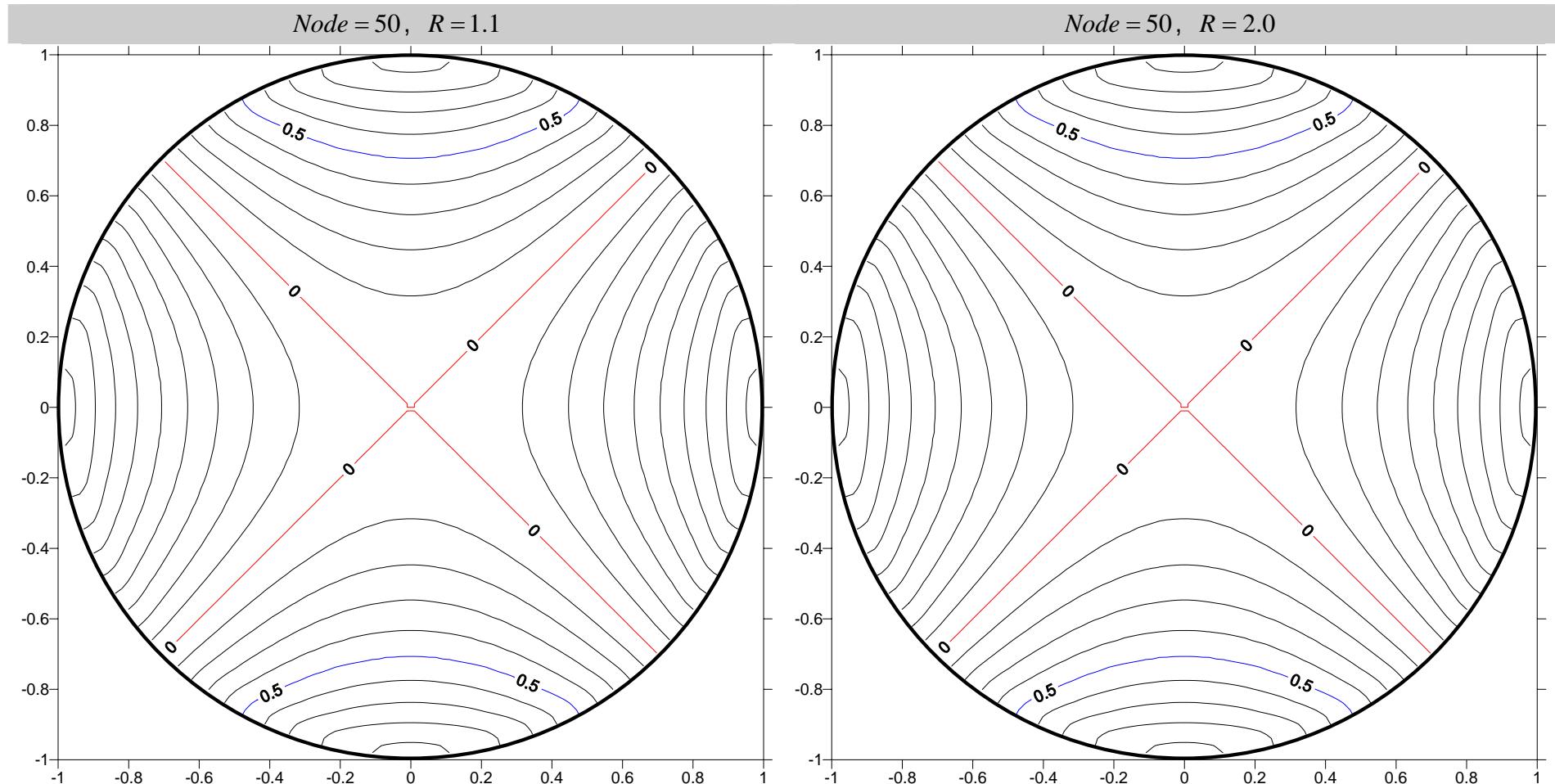
Node = 10, R = 1.1



Node = 10, R = 2.0







- (1) Nodes are the more points the more exact.
- (2) Location of fictitious far away the boundary is better than closer.
- (3) Radial is better than angular.