

Please derive the Green＇s function（closed form and degenerate form）for the Laplace equation which satisfies

$$
\text { G.E.: } \nabla_{x}^{2} G(x, s)=\delta(x-s), x \in \Omega
$$

and its boundary condition is

$$
\text { B.C.: } G(x, s)=0, x \in B
$$

Besides，please comments on the relationship of this problem and Poisson integral formula．


Please find the $G(x, s)=\left\{\begin{array}{ll}?, & R<\rho<a \\ ?, & 0<\rho<R\end{array}\right.$ if the range is changed．

## References：

【1】M．D．Greenberg，Application of Green＇s Functions in Science and Engineering， Prentice－Hall，London， 1971.

