Step 1 Find particular solution

$$\frac{h_{p} = \underline{B}^{T} h_{pr}}{h_{p} = \underline{B}^{T} (\underline{B}\underline{B}^{T})^{-1}g}$$

$$\Rightarrow \left| \underline{h}_{p} = \underline{B}^{T} (\underline{B}\underline{B}^{T})^{-1}g \right|$$

Step 2: Find associated homogeneous solution

Step 3: Add homogeneous & particular solutions

All this will be encapsulated in a general purpose
Hatlab function to solve linear boundary value problems  $h = solve_1bvp(L, f, B, g, N)$ 

Note on source terms:

The discrete this for is the cell average of fix)!