$$\begin{cases} \Delta^2 u = 0 & \text{in } \Omega \\ u(x,y) = 1 & \text{on } \partial\Omega \\ \dfrac{\partial u}{\partial n}(x,y) = g(x,y) & \text{on } \partial\Omega \end{cases}$$

$$u(x,y) = \sum_{i=1}^{n} c_i \log(r) + \sum_{i=1}^{n} d_i\, r^2 \log r$$

$$\frac{\partial u}{\partial n} = \sum c_i \frac{1}{r^2}(x n_x + y n_y) + \sum d_i (1 + 2\log r)(x n_x + y n_y)$$

$$\left[\begin{array}{c|c} \log r & r^2 \log r \\ \hline \frac{1}{r^2}(x n_x + y n_y) & (1+2\log r)(x n_x + y n_y) \end{array}\right] \begin{bmatrix} c \\ d \end{bmatrix} = \begin{bmatrix} 1 \\ g \end{bmatrix}$$