Poisson equation

$$\begin{array}{lll}
\Delta U = f(x,y) \\
U|_{\partial\Omega} = g(x,y)
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$$u' = \frac{1}{4}r^{3} + \frac{9}{7}$$

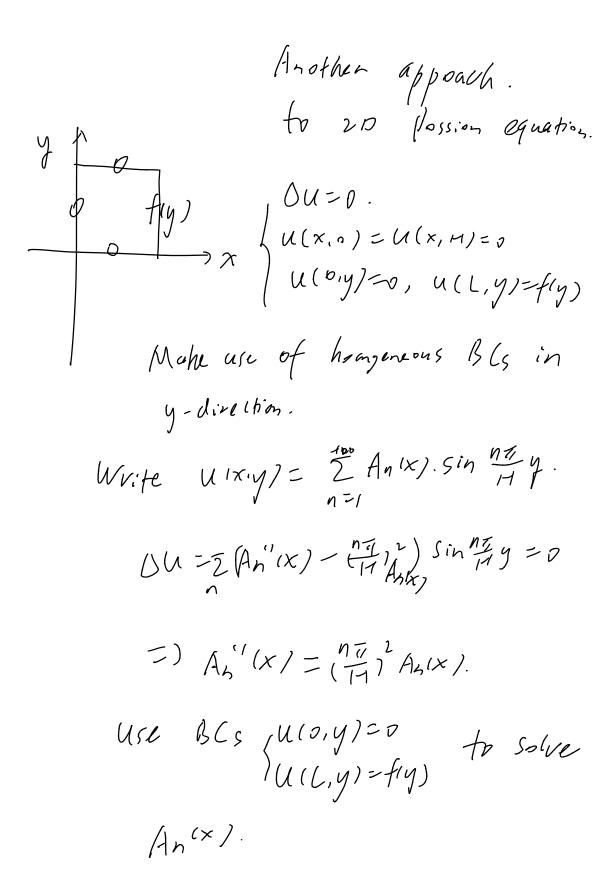
$$u' = \frac{1}{16}r^{4} + C_{1} \log r + C_{2}$$

$$u(1) = 0 \quad \text{and} \quad |u(n)| < + \infty$$

$$imply \quad C_{1} = 0, \quad C_{2} = -\frac{1}{16}$$

$$u(r) = \frac{1}{16}r^{4} - \frac{1}{16}$$

$$(3)$$
  $(1)$   $(1)$   $(2)$   $(1)$   $(2)$ 



Fourier Transform see let 25.