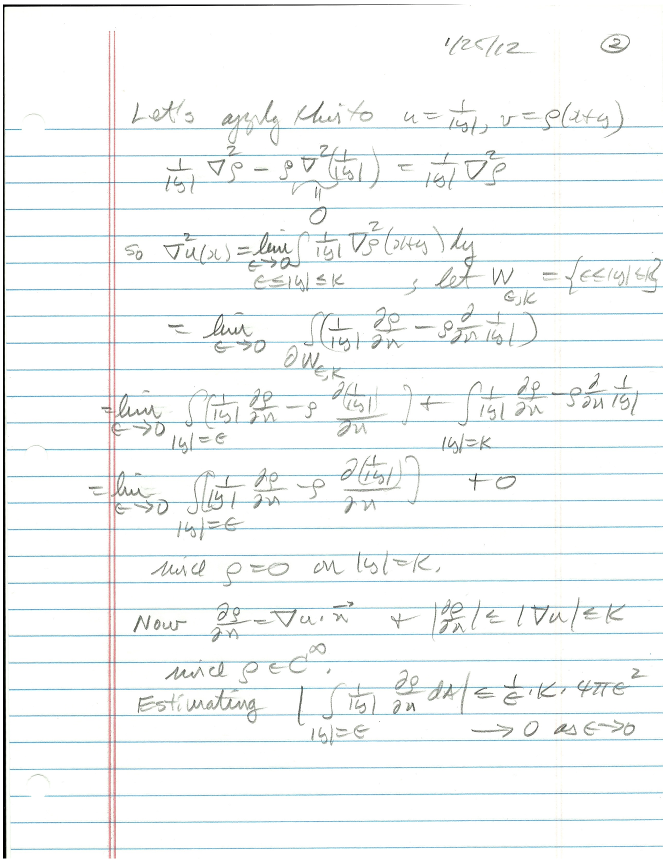
Practical Accounting 2 Valix Ebook 1098



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Let's apply this to $u=\frac{1}{|y|}$, $v=\rho(x+y)$

$$\frac{1}{|y|}\nabla^2\rho-\rho\underbrace{\nabla^2\left(\frac{1}{|y|}\right)}_{0}=\frac{1}{|y|}\nabla^2\rho$$

so $\nabla^2 u(x)=\lim_{\epsilon\to 0}\int_{\epsilon\le|y|\le K}\frac{1}{|y|}\nabla^2\rho(x+y)\,dy$, let $W_{\epsilon,K}=\{\epsilon\le|y|\le K\}$

$$=\lim_{\epsilon\to 0}\int_{\partial W_{\epsilon,K}}\left(\frac{1}{|y|}\frac{\partial\rho}{\partial n}-\rho\frac{\partial}{\partial n}\frac{1}{|y|}\right)$$

$$=\lim_{\epsilon\to 0}\int_{|y|=\epsilon}\left(\frac{1}{|y|}\frac{\partial\rho}{\partial n}-\rho\frac{\partial\left(\frac{1}{|y|}\right)}{\partial n}\right)+\int_{|y|=K}\frac{1}{|y|}\frac{\partial\rho}{\partial n}-\rho\frac{\partial}{\partial n}\frac{1}{|y|}$$

$$=\lim_{\epsilon\to 0}\int_{|y|=\epsilon}\left(\frac{1}{|y|}\frac{\partial\rho}{\partial n}-\rho\frac{\partial\left(\frac{1}{|y|}\right)}{\partial n}\right)+0$$

since $\rho=0$ on $|y|=K$.

Now $\frac{\partial\rho}{\partial n}=\nabla u\cdot\vec{n}$ & $\left|\frac{\partial\rho}{\partial n}\right|\le|\nabla u|\le K$

since $\rho\in C^\infty$.

Estimating $\left|\int_{|y|=\epsilon}\frac{1}{|y|}\frac{\partial\rho}{\partial n}\,dA\right|\le\frac{1}{\epsilon}\cdot K\cdot 4\pi\epsilon^2$ $\to 0$ as $\epsilon\to 0$

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