The first theorem of Green is:

$$
\iiint_{\mathcal{G}}\left[u \nabla^{2} v+(\nabla u, \nabla v)\right] d^{3} V=\oiint_{\mathcal{S}} u \frac{\partial v}{\partial n} d^{2} A
$$

The second theorem of Green is:

$$
\iiint_{\mathcal{G}}\left[u \nabla^{2} v-v \nabla^{2} u\right] d^{3} V=\oiint_{\mathcal{S}}\left(u \frac{\partial v}{\partial n}-v \frac{\partial u}{\partial n}\right) d^{2} A
$$

