$(1.2.3) \quad u(\zeta) = (2\pi i)^{-1} \left\{ \int_{z_{i}} \frac{u(z)}{z - \zeta} dz + \int_{z_{i}} \frac{\partial u/\partial \bar{z}}{z - \zeta} dz \wedge d\bar{z} \right\}, \qquad \zeta \in \omega.$ 

**Theorem 1.2.1.** If  $u \in C^1(\bar{\omega})$ , we have

1.2.3) 
$$u(\zeta) = (2\pi i)^{-1} \left\{ \int_{\partial \omega} \overline{z - \zeta} \, dz + \int_{\omega} \int_{\omega} \overline{z - \zeta} \, dz \wedge dz \right\}, \quad \zeta \in \omega.$$

Proof. Put  $\omega_{\epsilon} = \{z; z \in \omega, |z - \zeta| > \epsilon\}$  where  $0 < \epsilon <$  the distance

**Proof.** Put 
$$\omega_{\varepsilon} = \{z; z \in \omega, |z - \zeta| > \varepsilon\}$$
 where  $0 < \varepsilon <$  the distance from  $\zeta$  to  $\int_{-\infty}^{\infty} \omega$ . If we apply (1.2.2) to  $u(z)/(z - \zeta)$  and note that  $1/(z - \zeta)$  is analytic in  $\omega_{\varepsilon}$ , we obtain 
$$\iint_{\omega_{\varepsilon}} \partial u/\partial \bar{z} (z - \zeta)^{-1} d\bar{z} \wedge dz = \int_{\partial \omega} u(z)(z - \zeta)^{-1} dz - \int_{0}^{2\pi} u(\zeta + \varepsilon e^{i\theta})i d\theta.$$