

MTS 382 LATEKS UYGULAMA 6

$$\Delta u = c^2 \frac{\partial^2 u}{\partial t^2} \quad (\text{Dalga Denklemi})$$

$$\Delta u = c^2 \frac{\partial u}{\partial t} \quad (\text{Isı Denklemi})$$

$$\Delta u = 0 \quad (\text{Laplace in Denklemi})$$

$$\oint_{\partial R} P dx + Q dy = \iint_R \left(\frac{\partial Q}{\partial x} - \frac{\partial P}{\partial y} \right) dA \quad (\text{Green' in Teoremi}) \quad (1)$$

$$\iint_S (F \cdot n) d\sigma = \iiint_R (\nabla \cdot F) dV \quad (\text{Gauss' un Teoremi}) \quad (2)$$

$$\oint_C F dr = \iint_S (\nabla \times F) \cdot n d\sigma \quad (\text{Stokes' un Teoremi})$$

$$(f(x+iy) = u(x,y)+iv(x,y) \text{ olmak üzere}) \quad \left. \begin{array}{l} \frac{\partial u}{\partial x} = \frac{\partial v}{\partial y} \\ \frac{\partial v}{\partial x} = -\frac{\partial u}{\partial y} \end{array} \right\} \quad \text{Cauchy-Riemann Denklemi}$$