

Applications: 1. If g(x) is a provided density function

on S, Then  $\int \int g(x) dx = \int g(x) dx = f(x)$ 2. proof of 5.60  $\int_{0}^{h} G_{i}(x+t,y)dt = G_{i}(x+c,y) dx = G_{i}(x+c,y) \rightarrow G_{i}(x,y)$   $\int_{0}^{h} G_{i}(x+t,y)dt = G_{i}(x+c,y) dx = G_{i}(x+c,y) \rightarrow G_{i}(x,y)$