$$\begin{cases}
(x) = \int_{1}^{2} (x) = S_{2} - (\cos(x)) = \int_{1}^{2} \frac{1}{1} \frac{\cos(x)}{2} + \frac{1}{2} \cos(x) = \int_{1}^{2} \frac{1}{1} \frac{\cos(x)}{2} + \frac{1}{2} \cos(x) = \int_{1}^{2} \frac{1}{1} \frac{\cos(x)}{2} + \frac{1}{2} \cos(x) = \int_{1}^{2} \frac{1}{1} \cos(x) + \frac{1}{2} \cos(x) + \frac{1}{2} \cos(x) = \int_{1}^{2} \frac{1}{1} \cos(x) + \frac{1}{2} \cos(x) + \frac{1}{2} \cos(x) = \int_{1}^{2} \frac{1}{1} \cos(x) + \frac{1}{2} \cos(x) + \frac{1}{2} \cos(x) = \int_{1}^{2} \frac{1}{1} \cos(x) + \frac{1}{2} \cos(x) + \frac{1}{2} \cos(x) = \int_{1}^{2} \frac{1}{1} \cos(x) + \frac{1}{2} \cos(x) + \frac{1}{2} \cos(x) = \int_{1}^{2} \frac{1}{1} \cos(x) + \frac{1}{2} \cos(x) + \frac{1}{2} \cos(x) = \int_{1}^{2} \frac{1}{1} \cos(x) + \frac{1}{2} \cos(x) + \frac{1}{2} \cos(x) = \int_{1}^{2} \frac{1}{1} \cos(x) + \frac{1}{2} \cos(x) + \frac{1}{2} \cos(x) = \int_{1}^{2} \frac{1}{1} \cos(x) + \frac{1}{2} \cos(x) + \frac{1}{2} \cos(x) + \frac{1}{2} \cos(x) = \int_{1}^{2} \frac{1}{1} \cos(x) + \frac{1}{2} \cos(x) + \frac{1}{2} \cos(x) = \int_{1}^{2} \frac{1}{1} \cos(x) + \frac{1}{2} \cos(x) + \frac{1}{2} \cos(x) + \frac{1}{2} \cos(x) = \int_{1}^{2} \frac{1}{1} \cos(x) + \frac{1}{2} \cos(x) + \frac{1}{2} \cos(x) + \frac{1}{2} \cos(x) = \int_{1}^{2} \frac{1}{1} \cos(x) + \frac{1}{2} \cos(x) + \frac{1}{2} \cos(x) = \int_{1}^{2} \frac{1}{1} \cos(x) + \frac{1}{2} \cos(x) + \frac{1}{2} \cos(x) + \frac{1}{2} \cos(x) = \int_{1}^{2} \frac{1}{1} \cos(x) + \frac{1}{2} \cos(x) + \frac{1}{2} \cos(x) + \frac{1}{2} \cos(x) = \int_{1}^{2} \frac{1}{1} \cos(x) + \frac{1}{2} \cos(x) + \frac{1}{2} \cos(x) = \int_{1}^{2} \frac{1}{1} \cos(x) + \frac{1}{2} \cos(x) + \frac{1}{2} \cos(x) + \frac{1}{2} \cos(x) = \int_{1}^{2} \frac{1}{1} \cos(x) + \frac{1}{2} \cos(x) + \frac{1}{2} \cos(x) + \frac{1}{2} \cos(x) = \int_{1}^{2} \frac{1}{1} \cos(x) + \frac{1}{2} \cos(x) = \int_{1}^{2} \frac{1}{1} \cos(x) + \frac{1}{2} \cos(x) + \frac{1}{2} \cos(x) + \frac{1}{2} \cos(x) + \frac{1}{2} \cos(x) = \int_{1}^{2} \frac{1}{1} \cos(x) + \frac{1}{2} \cos(x) + \frac{1}{2} \cos(x) + \frac{1}{2} \cos(x) + \frac{1}{2} \cos(x) = \int_{1}^{2} \frac{1}{1} \cos(x) + \frac{1}{2} \cos(x) + \frac{1}$$

 $\int_{0}^{\pi} |f(t)|^{2} dt = \int_{0}^{\pi} |f(t)|^{2}$ with: f(t) = 2 f(m). e 27 int  $= \int_{\infty}^{\infty} \int_{\infty}^{\infty} f(x) \cdot e^{-2\pi i x} f(t) dt$   $= \int_{\infty}^{\infty} \left( \int_{\infty}^{\infty} f(x) \cdot e^{-2\pi i x} \right) \cdot \int_{\infty}^{\infty} \left( \int_{\infty}^{\infty} f(x) \cdot e^{-2\pi i x} \right)$   $= \int_{\infty}^{\infty} \left( \int_{\infty}^{\infty} f(x) \cdot f(x) \cdot f(x) \right) \cdot \int_{\infty}^{\infty} \left( \int_{\infty}^{\infty} f(x) \cdot f(x) \cdot f(x) \right)$   $= \int_{\infty}^{\infty} \left( \int_{\infty}^{\infty} f(x) \cdot f(x) \cdot f(x) \cdot f(x) \right) \cdot \int_{\infty}^{\infty} \int_{\infty}^{\infty} f(x) \cdot f(x$