

SARDAR BHAGWAN UNIVERSITY

Subject: Mathematical Physics

Class: BSc (Hon)

Topic: Fourier transform

Phy & Math

Assignment - 9

1. Find Fourier sin transform of $\frac{1}{x}$
2. Find Fourier sin transform of $\frac{s}{1+s^2}$
3. Find Fourier Cosine transform of $\frac{e^{ax} + e^{-ax}}{e^{\pi x} - e^{-\pi x}}$
4. Find Fourier sine transform of $x e^{-x^2/2}$