

SARDAR BHAGWAN SINGH UNIVERSITY

Subject : Mathematical Physics

Course : B.Sc (Hon.) Physics & Mathematics

Assignment → 4.

1. Find $L^{-1} \tan^{-1}(\frac{1}{s})$

2. Find $L^{-1} \frac{1}{s+2}$

3. Find $L^{-1} \frac{e^{-s}}{(s+3)^5}$

4. Find $L^{-1} \frac{s e^{-s/2} + \pi e^{-s}}{s^2 + \pi^2}$

5. Find $L^{-1} \frac{e^{-2s}}{(s+1)(s^2+2s+2)}$

6. Find $L^{-1} \left[\log \frac{s^2-1}{s^2} \right] =$