- 1) Evaluate the integral

- (a)  $\int_{-1}^{\infty} \frac{dx}{(x+1)^2}$  (b)  $\int_{-1}^{0} \frac{dx}{(x+1)^2}$  (c)  $\int_{-1}^{0} \frac{dx}{(x+1)^2}$  (d)  $\int_{-1}^{0} \frac{dx}{(x+1)^2}$
- (3) And Cauchy's principle value for J'dr
- 3. Test the convergence
- (a) | SINX (b) | SIN(4) dx (c) | d1 | (3-x)(1-1)
- 4) For what values of 'P' ] sin (1/x) dx converges absolutely
- 5. Evaluate uning P -tunctions
  - (a) =4, 31, dx (b) = 0,7,2 dx
- @ Enduate using I-B tunctions
  - (1-1x) dx
  - (D) 1 3/2 (1-22) 3/2 da
    - @ J Tatodo