- (1) P-Lewiec Test: The Lewiec  $\frac{92}{n=1}\frac{1}{nP}=\frac{1+1+1}{2P}\frac{1}{3P}$ (a) Is convergent if p>1; (b) Direkgent if  $p \leq 1$
- (2) Comparison Test: If sun and sun be 2 positive term and belies st from and after some particular term lim a un = K (Finite, non zero) then sun and sun are now with the both convergent or divergent.
- Bt fluom and after some particular term Lim Un. = K
  then sun: (i) converges if K>1 (iii) Test fails for K=1
  (ii) Diverges if KL1
- Y Raabe's Test: If Eun be a tre telum Berlies, It floom and after some posticular term lim n (un -1)=K, then Eun: (i) converges if K>1 (ii) Test fails for K=1 (iii) Test fails for K=1
- Degasithmic Test: If sun be a +ve term belies st formal and after some particular term him in log un = K then sun: (i) converges if K>1 (iii) Test fails for K=1
- (6) Cauchy's Root Test: If Lun be a Lewies (tre terum), Lt from and after some particular terum him (un) I'm = K then Lun: i) converges if KLI (iii) Test fails for K=1
- (7) Integral Test: If f(x) is the continuous and monotonically deckeasing and st f(x) = un then sun is convergent or divergent, according at the value of integral office) dx is finite and unique or infinite.

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