$\int_{4}^{\infty} \frac{6}{1+x^{8}} dx$  $50 \frac{1}{2} \ge \frac{1}{3}$ | > 0  $\sqrt{add} \times x^8$  to both sides  $|+ \times^8 > \times^8$ I reciprocal Loh sides. Change inequality direction 1 + 18 5 X8  $\int_{1}^{\infty} \frac{1}{x^{s}} dx$  converges sine p is 8 and p>1. By the Comparison Theorem, Sit 1+x dx converges. Changing the starting x and multiplying by 6 does not Change Convergence. So Su 6 dx converges I avoided the word [it]. "It" could refer to