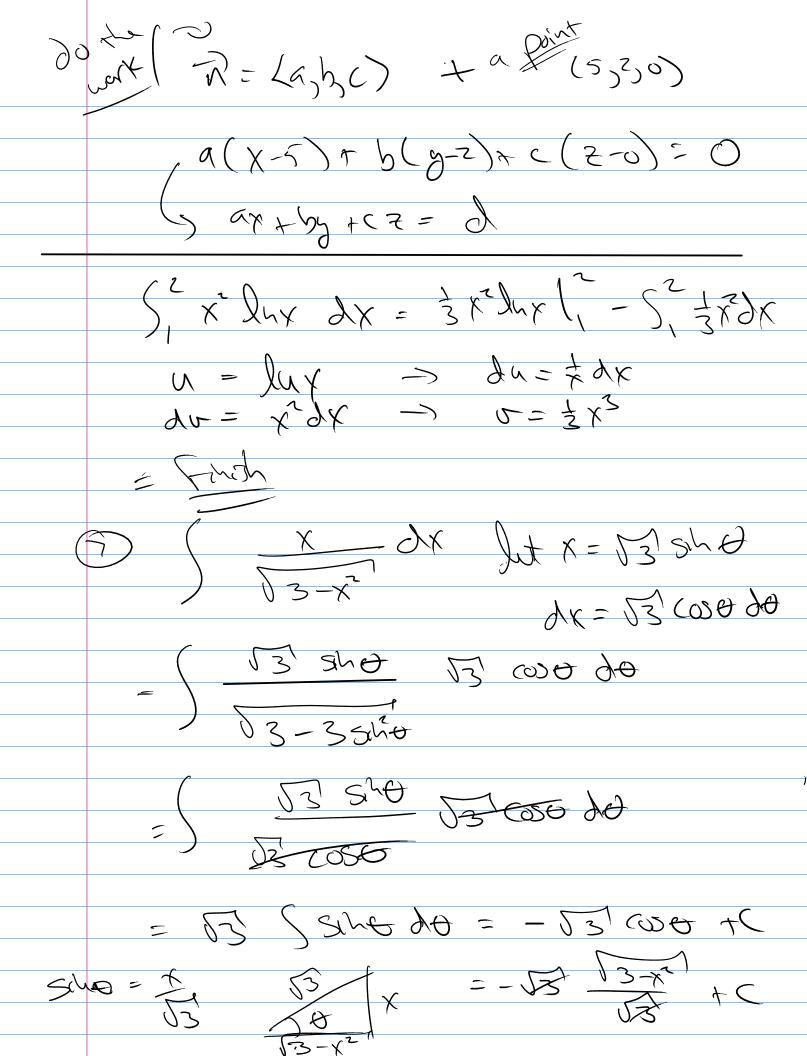
Math 243 Midtern 1 (1) 2 + 4 (b) = (2,7,-1) 12 - JZq 2 2.0 +0 Not orthogonal (3) DE (2) | [] = | F| | 7 | SIL O 0 = 180 - 10 - tan'(,2) 121= 200. 12600 SIND = 200 52600 Sch (170 - tan (.2)) (2,9,-3) (3,-1,1) pts. T= <-1,5,-4> ⟨Υ, y, ≥> = ⟨ 3, -1, 17 + + ⟨-1, 5, -4>
 (5) (1,3,2) (3,-1,6) (5,2,0) R = (2,-4,4) R = (4,-1,-2) R = (7,7)

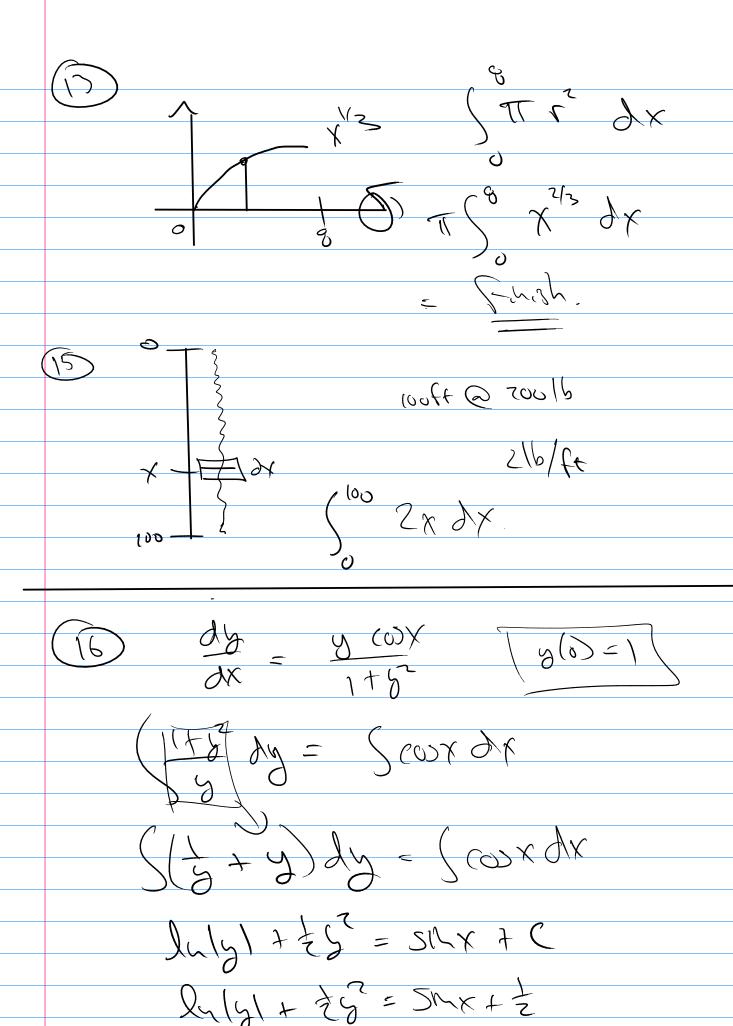


$$= - \sqrt{3}x^{2} + C$$

$$= - \sqrt{3}x^{2} + C$$

$$= \sqrt{3}$$

Jerrs dx Jut w= ex $\frac{du = e^{x} dx}{dx}$ $\int_{0}^{1} (x-1)^{2} dx = \int_{0}^{1} (x-1)^{2} dx + \int_{0}^{2} (x-1)^{2} dx$ 10 line = 27 = 7 \\ \(\sqrt{1-x^2} \) = 2 23 h= 145-52 = 53 y trianghi: 26.h = 2(27)(53y) = 53y (13/(1-x2) dx - Finsh.



Convergence & Zan My b Earn-1 = a tartartar + -S=a tartart. rS= arrar fart.. S-15= a 5 = a for all 2 ar - 1 = - a f(x) = \frac{\infty}{\infty} \alpha \x' = \frac{\alpha}{\left(\times)} \x' \x' \x' \x' FIXICI a + ax + ax² + ax³ + ten = a

Confaison test it a snaller serves diverges so vill if a larger series converges so will snaller Diregence test Zan Converges, then an anto _ zan dwerges ntegral Test. It is cont., partile, f(n) = 9n Squ converges iff 50 f(6)

(a) both converge b) both dherge. $\sum_{k=1}^{N-1} \frac{N_k d}{T}$) & 13 dec. So the dx = Ju St Xyx $= \int_{t-\infty}^{t} \frac{3}{4} t = \int_{t-\infty}^{t-\infty} \frac{3}{4} t = \int_{t-\infty}^{t} \frac{3}{4} t = \int_{t-\infty}^{t-\infty} \frac{3}{4}$ (1 1/4) werges > 2 Try diverges \$(x) = xp =

For
$$f(x) = x^p$$
 to be dec

$$\begin{cases}
0 & 1 & 0 \\
0 & 1 & 0
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 1 & 0 \\
0 & 1
\end{cases}$$

$$\begin{cases}
0 & 0 & 0 \\
0 & 0
\end{cases}$$

$$\begin{cases}
0 & 0 & 0 \\
0 & 0
\end{cases}$$

$$\begin{cases}
0 & 0 & 0 \\
0 & 0
\end{cases}$$

$$\begin{cases}
0 & 0 & 0 \\
0 & 0
\end{cases}$$

$$\begin{cases}
0 & 0 & 0 \\
0 & 0
\end{cases}$$

$$\begin{cases}
0 & 0 & 0 \\
0 & 0
\end{cases}$$

$$\begin{cases}
0 & 0 & 0 \\
0 & 0
\end{cases}$$

$$\begin{cases}
0 & 0 & 0 \\
0 & 0
\end{cases}$$

$$\begin{cases}
0 & 0 & 0 \\
0 & 0
\end{cases}$$

$$\begin{cases}
0 & 0 & 0 \\
0 & 0
\end{cases}$$

$$\begin{cases}
0 & 0 & 0 \\
0 & 0
\end{cases}$$

$$\begin{cases}
0 & 0 & 0 \\
0 & 0
\end{cases}$$

$$\begin{cases}
0 & 0 & 0 \\
0 & 0
\end{cases}$$

$$\begin{cases}
0 & 0 & 0 \\
0 & 0
\end{cases}$$

$$\begin{cases}
0 & 0 & 0 \\
0 & 0
\end{cases}$$

$$\begin{cases}
0 & 0 & 0 \\
0 & 0
\end{cases}$$

$$\begin{cases}
0 & 0 & 0 \\
0 & 0
\end{cases}$$

$$\begin{cases}
0 & 0 & 0 \\
0 & 0
\end{cases}$$

$$\begin{cases}
0 & 0 & 0 \\
0 & 0
\end{cases}$$

$$\begin{cases}
0 & 0 & 0 \\
0 & 0
\end{cases}$$

$$\begin{cases}
0 & 0 & 0 \\
0 & 0
\end{cases}$$

$$\begin{cases}
0 & 0 & 0 \\
0 & 0
\end{cases}$$

$$\begin{cases}
0 & 0 & 0 \\
0 & 0
\end{cases}$$

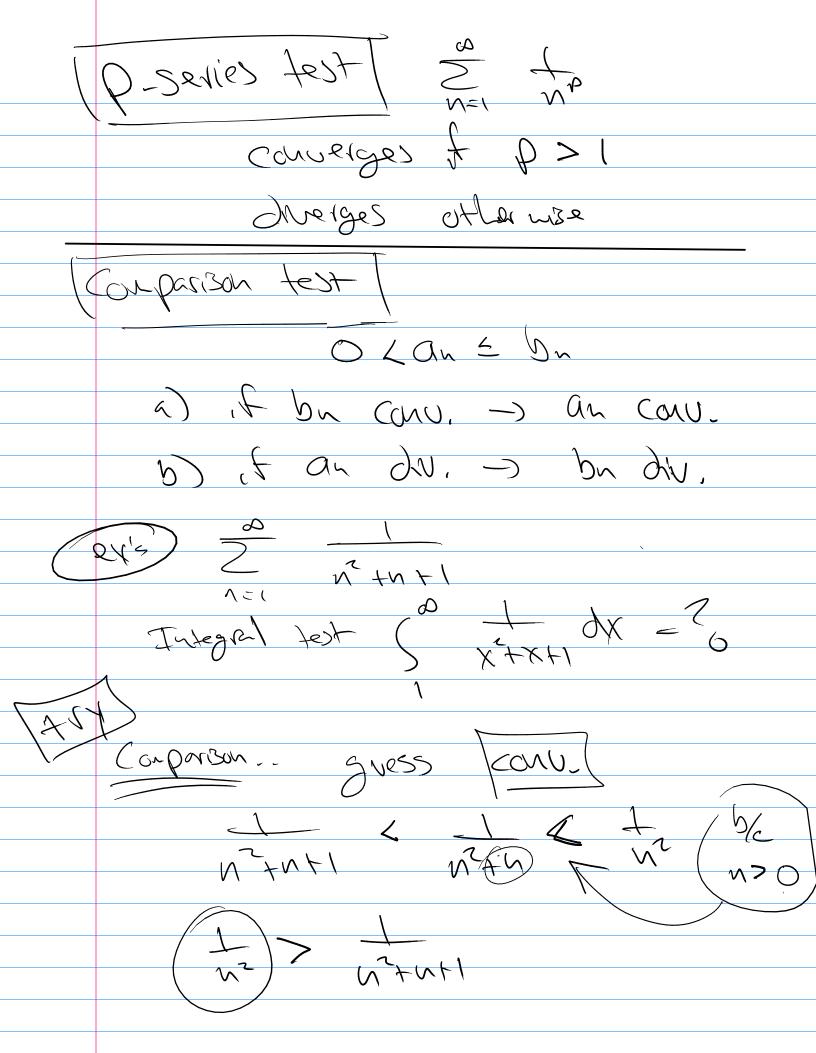
$$\begin{cases}
0 & 0 & 0 \\
0 & 0
\end{cases}$$

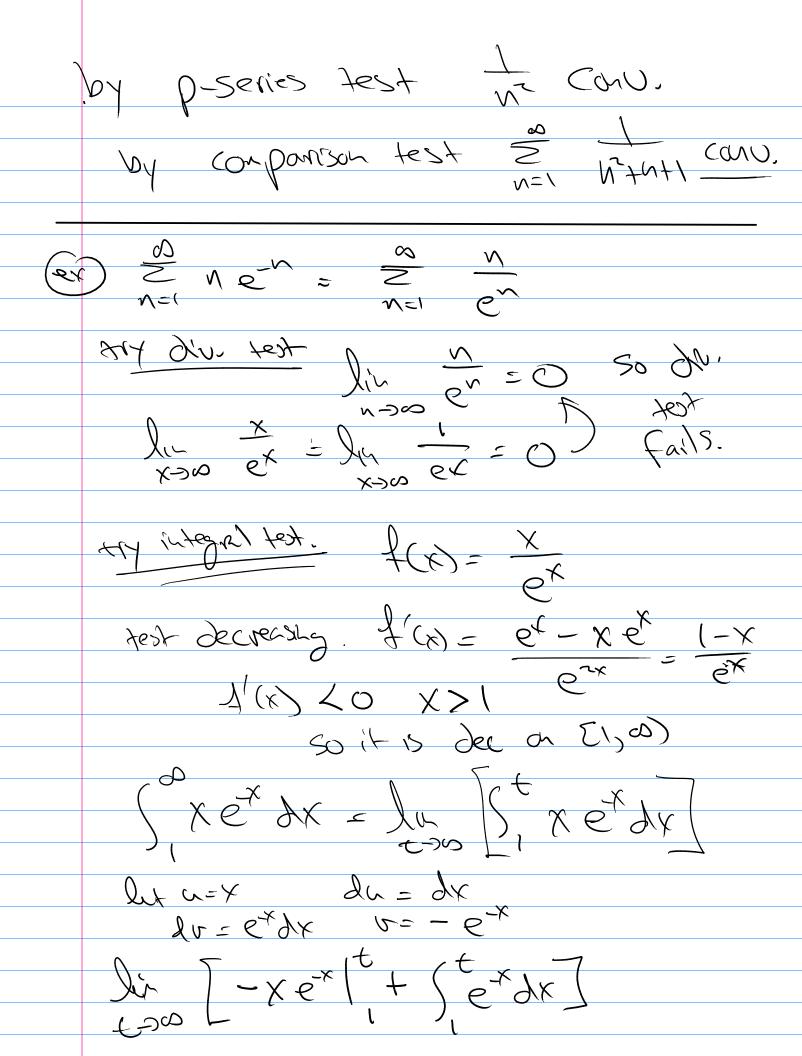
$$\begin{cases}
0 & 0 & 0 \\
0 & 0
\end{cases}$$

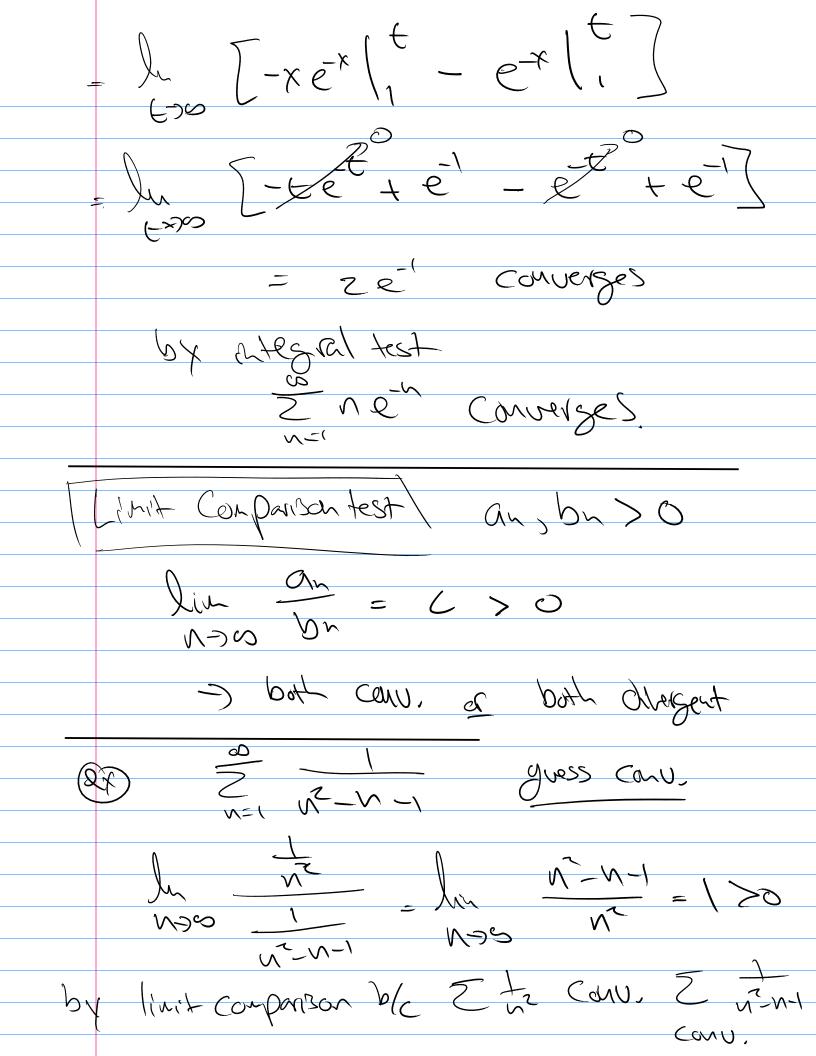
$$\begin{cases}
0 & 0 & 0 \\
0 & 0
\end{cases}$$

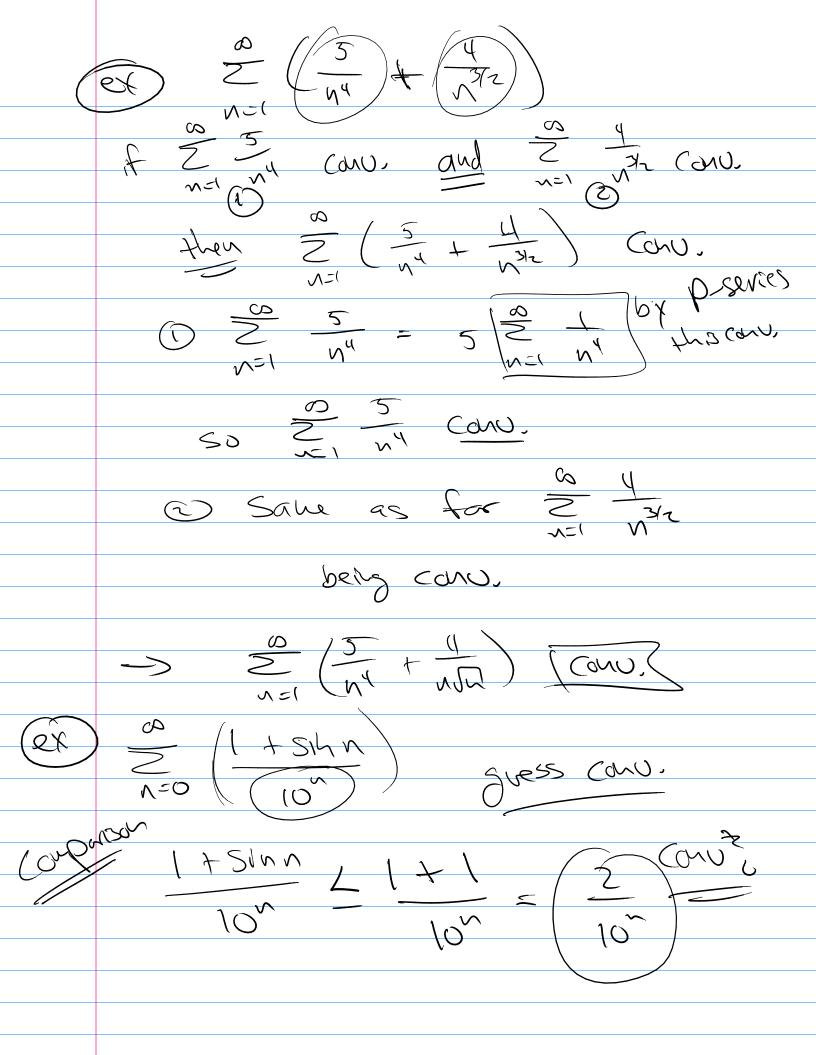
$$\begin{cases}
0 & 0 & 0 \\
0 & 0
\end{cases}$$

$$\begin{cases}
0 & 0 &$$



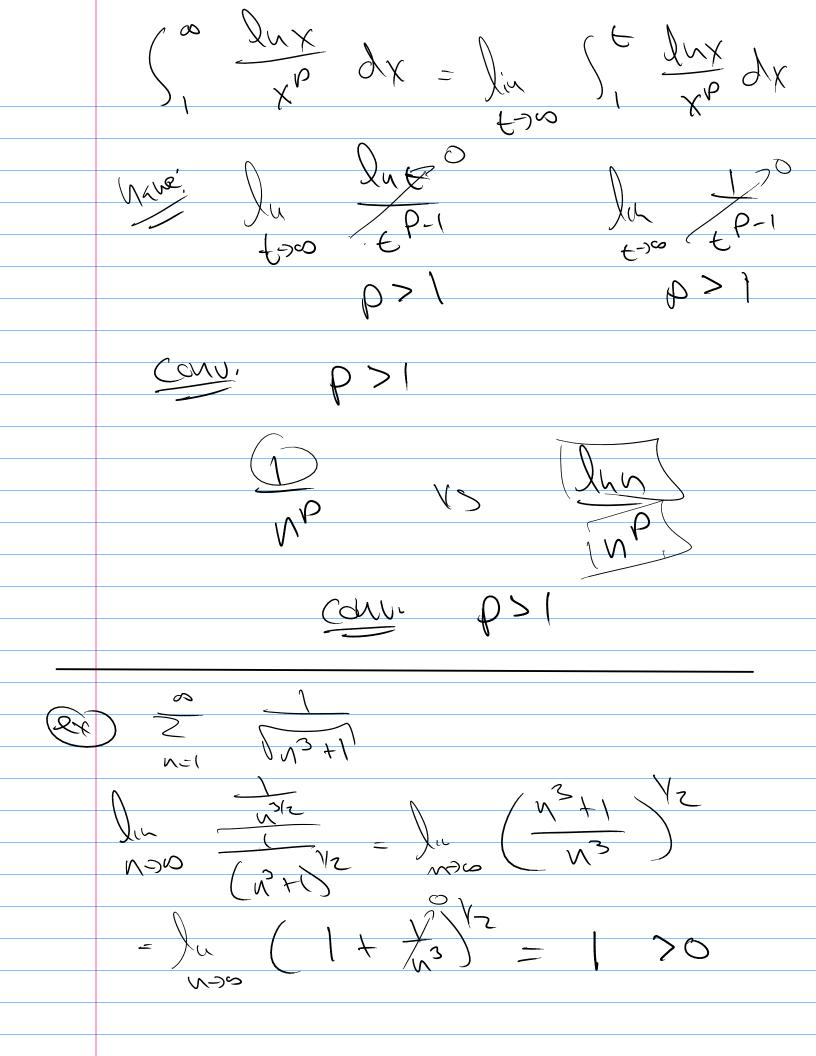






100 $\int_{0}^{\infty} \frac{2}{10^{x}} dx = \int_{0}^{\infty} \frac{2}{10^{-x}} dx$ = lu - Z -x /t 10 -2 10 + 2 1410 2 10 - CONU. by compared test

2 1 + 24 n cono. N= DNN



	by livit comparison test
	b/c 2 13/2 conv. (P-series)
	$\sum_{N=1}^{\infty} \frac{1}{N^{2}+1} CONU.$
_	