=> 7 noonseget, dhoose Le 1 Genina 2 1. Det lin 26, si lin X, procisional deco existe lin Xn, brite: Xn, procisional deco $e) \approx = 1 + 2(-1)^{2+1} + 3(-1)^{2} \times (-1)$ $\begin{array}{l} \Xi_{4n} = 1 + 2 \cdot (-1) + 3 \cdot (-1) \\ & \Xi_{4n} = 1 + 2 \cdot (-1) + 3 \cdot (-1) \\ & \Xi_{4n} = 1 + 2 \cdot (-1) + 3 \cdot (-1) \\ & \Xi_{4n} = 1 + 2 \cdot (-1) + 3 \cdot (-1) \end{array}$ = 1-2+3=2 2 9tym+1=1+2(-1)4~+2 2-mm 1+2-3=0200 $24+2=1+2(-1)^{4n+3}+3(-1)^{(2n+1)(4n+3)}$ $24+2=1+2(-1)^{4n+3}+3(-1)^{(2n+2)(2n+2)}$ $24+3=1+2(-1)^{4n+4}+3(-1)^{(2n+2)(2n+2)}$ $=1+2+3=6 \longrightarrow 6$ lin N = 4N U(4N+1) U (4N+2) U (4N+3) L((96m)2) = {2,0,4,6} li str= 6 ling sta = -4 li xztlint~=7NU EXISTAL XA

ling that b) act of year Tol: 12 - slnn 11 = 0 2(3mm = sin (2/1+ 1/3) = sin 2/1 ros 1/2 + cos 2/1 son 1/2 son 3 =(-1)~ 号 $\frac{2}{(-1)^{2}-4}\frac{\sqrt{3}}{2}=\frac{\sqrt{7}}{2} \rightarrow \frac{\sqrt{3}}{2}$ 23 - + 2 = ni $\frac{(3n + 2)^{2}}{2} = ni$ $(-1)^{2}$ sin (~11) cos 211 + sin 211 cos (~11) $=(-1)^{2}$ $\frac{\sqrt{3}}{2}$ $f(3) = 2 = (-1)^{2} - \sqrt{3} = \sqrt{3}$ 9t 2. $(2n+1)+2=(-1)^{2n+1}\frac{\sqrt{3}}{2}=-\frac{\sqrt{3}}{2}\frac{\sqrt{3}}{2}$ N=6NU(6N+1)U...U(6N+5)2(3=)= 2 + 13,0) ATEM 2 (0) 211 Von raste so lin x~=0

TINE CONTINUENT Charlon citembre destetui oven li x = 0, i e. li x = 0, Li x = 0 2. Det sums serier de mei zo si precisati Acce este convergente pour drougeté 2 (0+1) ! $\frac{10!}{5} = \frac{1}{2!} = \frac{1}{3!} = \frac{1}{2!}$ $\frac{1}{3!} = \frac{1}{2!} = \frac{1}{3!} = \frac{1}{2!} = \frac{1}{2!} = \frac{1}{3!} = \frac{1}{2!} = \frac{1}{2!}$ $=1-\frac{1}{c+1}$, $\forall c \in \mathbb{N}^*$ li pr=1 fR=) 2 Hr correlyeto 3. Ituliati and (sou nature) serila.

(sol nature) serila.

(sol nature) serila.

2 760 HE 2 200 TOTAL = ling 12 - 1 = 12 - 1 = 12 - 1 = 12 Colon cent rep:) 1) ra 2 1 => seine este como. 2) re> 1 => seine este alreog. 3) re= 1 =) 2= = これりれ=+60 lin xn = 1 + 0 => = 1 outsind one diseignte Tol. Am obtinut Ext como, re 21 Ext como, re 21 disely, 0>1 b) \(\frac{1}{2} + \cdot \) X = 1 + N H NEN 1 < 1 , Y ~ E N 2 + ~ = 2 ~ 1 + ~ E N Fie Ju= m, tre N

X2= yn, Y2 EM $\sum_{r=0}^{\infty} y_r = \sum_{r=0}^{\infty} \frac{1}{2^r}$ = 2 = 7 como. (Deril glor etict) Confor externer de com ou inez. Novem $\sqrt{2}$ \sqrt The 2th = (2 - 2+3 nt) 7+~ ENT Apl. aitainle 2001: $\lim_{n \to \infty} 7 \neq 1 = \lim_{n \to \infty} \frac{2n^2 + 3n + 3}{2n^2 + 3n + n} = \frac{2n^2}{2n^2}$ 1) = < 1 = 7 a < 2 pt. p < 2 = > como 2) =>1 => nt. re>2 => diverg. 3) == 1 => oit. m det. notre à $\mathcal{H}_{1} = \left(2\frac{2}{2}+5-t\right)^{2} = \left(1+\frac{2}{2}+3+1\right)^{2}$ $= \left(1 + \frac{2^{n+2}}{2^{n+3}}\right)^{\frac{2}{n+3}} \frac{n(2^{n+2})}{2^{n+3}} \frac{n(2^{n+2})}{2^{n+3}}$ D din xn = 2 L L=1-2(2n+2)=1 n>02n2+3n+1 li I_= R+0=) serie este stirenge to oit rul de diolog.

d) } \\ \tau_{1} n=1 \13+1 V-21 - 72 V221. ~ 2 < ~ \ \ ~ 11 √~2+1 €> √~2+1 2 = \22+1, y = N*

2 = 1 , y = EN* Ling & Elings TO In photogete Dx phoely El seitelinen de com en lemité voer co & x2 ~ Ey~ $\sum_{n=1}^{\infty} x_n = \sum_{n=1}^{\infty} \frac{1}{\sqrt{n}} = \sum_{n=1}^{\infty} \frac{1}{\sqrt{n}} \int_{-\infty}^{\infty} x_n dx = \sum_{n=1}^{\infty} \frac{1}{\sqrt{n}}$ smonis generalisate on L = 2 < 1 Deri Z x 2 sto Lindy.