b) au = 1+ (-1), N31 nen

Estubiar manostaria, acotación y convergencia

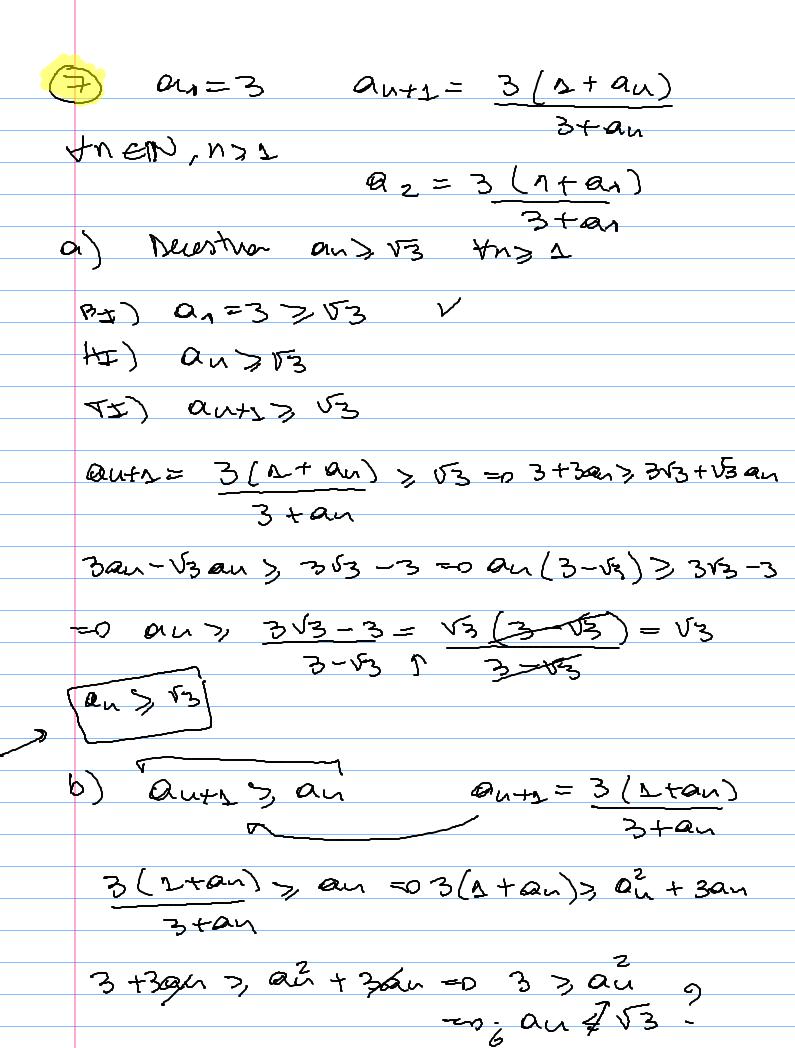
ant  $2 \le an$  (monotono decreviente) aut 2 > an (monotono creciente)  $= 0 \ ant \ 2 = L + (-1)^{1+1} \le 1 + (-1)^{1+1}$ 

 $= 1 + (-1)^{n} \cdot (-1) = 1 - (-1)^{n}$   $= 1 - (-1)^{n}$ 

# Si n + 2 D auty > an

Motorian: live an = live  $2 + (-2)^n = 1$ 

Cawerphia: Dondo limite fivito =D Converge



Qu+1 E au monstone decreiont

 $a_{n+1} = 3(a_{n+1})$   $a_{n} = 3$   $a_{n+1} = 3$   $a_{n+1} = 3$   $a_{n+1} = 3$   $a_{n+1} = 3$ 

QZ= 3(1+3) = 12 = 2

c) an 5, 53 g an mastra a dereciente =Del livile en 53

Proches 9 Decir terms grand de la suie  $\frac{1}{3^2} + \frac{1}{5^2} - \frac{1}{7^2} + \frac{1}{9^2} - \frac{1}{10} = \frac{1}{10}$ (-1) can K & 7L  $= n \sum_{K \supset p} \frac{(-1)^{k}}{(2k+1)^{2}}$ b) 1/2+1/2+3/8+4/+5----12+74+36+46+5/32  $\frac{1}{2} \frac{n}{2^n} \frac{1}{2^{n+2}}$ 

Claritace la scie, en caso conegue hala  $\frac{2^{n}+3^{n}}{6^{n}}$  $\frac{7}{130}\frac{2^{n}}{6^{n}}+\frac{7}{130}\frac{3^{n}}{6^{n}}$  $\frac{\sum_{n \to \infty} 2^{n}}{(2.3)^{n}} + \frac{\sum_{n \to \infty} 3^{n}}{(2.3)^{n}} = \frac{\sum_{n \to \infty} 2^{n}}{(2.3)^{n}} + \frac{\sum_{n \to \infty} 3^{n}}{(2.3)^{n}} = \frac{\sum_{n \to \infty} 2^{n}}{(2.3)^{n}} + \frac{\sum_{n \to \infty} 3^{n}}{(2.3)^{n}} = \frac{\sum_{n \to \infty} 2^{n}}{(2.3)^{n}} + \frac{\sum_{n \to \infty} 3^{n}}{(2.3)^{n}} = \frac{\sum_{n \to \infty} 2^{n}}{(2.3)^{n}} + \frac{\sum_{n \to \infty} 2^{n}}{(2.3)^{n}} = \frac{\sum_{n \to \infty} 2^{n}}{(2.3)^{n}} + \frac{\sum_{n \to \infty} 2^{n}}{(2.3)^{n}} = \frac{\sum_{n \to \infty} 2^{n}}{(2.3)^{n}} + \frac{\sum_{n \to \infty} 2^{n}}{(2.3)^{n}} = \frac{\sum_{n \to \infty} 2^{n}}{(2.3)^{n}} + \frac{\sum_{n \to \infty} 2^{n}}{(2.3)^{n}} = \frac{\sum_{n \to \infty} 2^{n}}{(2.3)^{n}} + \frac{\sum_{n \to \infty} 2^{n}}{(2.3)^{n}} = \frac{\sum_{n \to \infty} 2^{n}}{(2.3)^{n}} + \frac{\sum_{n \to \infty} 2^{n}}{(2.3)^{n}} = \frac{\sum_{n \to \infty} 2^{n}}{(2.3)^{n}} + \frac{\sum_{n \to \infty} 2^{n}}{(2.3)^{n}} = \frac{\sum_{n \to \infty} 2^{n}}{(2.3)^{n}} + \frac{\sum_{n \to \infty} 2^{n}}{(2.3)^{n}} = \frac{\sum_{n \to \infty} 2^{n}}{(2.3)^{n}} + \frac{\sum_{n \to \infty} 2^{n}}{(2.3)^{n}} = \frac{\sum_{n \to \infty} 2^{n}}{(2.3)^{n}} + \frac{\sum_{n \to \infty} 2^{n}}{(2.3)^{n}} = \frac{\sum_{n \to \infty} 2^{n}}{(2.3)^{n}} + \frac{\sum_{n \to \infty} 2^{n}}{(2.3)^{n}} = \frac{\sum_{n \to \infty} 2^{n}}{(2.3)^{n}$  $-\frac{7}{3} + \frac{1}{2} = \frac{1}{100} + \frac{1}{100} = \frac{1}{100} + \frac{1}{100} = \frac{1}{10$ Suie guardia Darn = Da No no = 1 + 1 = 3h + 2 = 7h1-1/2 1 -1/2

