9.1 8. 13, 17, 27, 28 e 42 einco primeiros e o limite se do con nergo 8.
$$\left[\frac{n^2}{2n+1}\right]_{n=1}^{+\infty}$$

1. $\frac{1}{3}, \frac{1}{3}, \frac{3}{7}, \frac{16}{3}, \frac{25}{11}$

1. $\frac{1}{3}, \frac{1}{3}, \frac{1}{7}, \frac{16}{3}, \frac{25}{11}$

1. $\frac{1}{3}, \frac{1}{3}, \frac{1}{7}, \frac{16}{3}, \frac{25}{11}$

1. $\frac{1}{3}, \frac{1}{3}, \frac{1}{7}, \frac{16}{3}, \frac{25}{11}$

1. $\frac{1}{3}, \frac{1}{3}, \frac{1}{3}, \frac{1}{3}, \frac{1}{3}, \frac{1}{3}$

1. $\frac{1}{3}, \frac{1}{3}, \frac{1}{3}, \frac{1}{3}, \frac{1}{3}, \frac{1}{3}$

1. $\frac{1}{3}, \frac{1}{3}, \frac{1}{3}, \frac{1}{3}, \frac{1}{3}, \frac{1}{3}$

1. $\frac{1}{3}, \frac{1}{3}, \frac{1}{3}$

17. $\left[\frac{(n+1)(n+2)}{2n^2}\right]_{n=1}^{+\infty} = \frac{1}{2}, \frac{12}{8}, \frac{20}{32}, \frac{30}{32}, \frac{42}{50}$ $\frac{(n+1)(n+2)}{n^2}\Big]_{n=1}^{+\infty} = \frac{1}{2}, \frac{12}{8}, \frac{20}{32}, \frac{30}{50}, \frac{42}{50}$ $\frac{(n+1)(n+2)}{n^2}\Big]_{n=1}^{+\infty} = \frac{1}{2}, \frac{1}{2}, \frac{1}{2}, \frac{1}{2}, \frac{1}{2}$ $\frac{2n^2}{n^2}\Big]_{n=1}^{+\infty} = \frac{1}{2}, \frac{1}{2$

9.2 5.6.8.12.23 5. verifican se estritamente crecante ou de cres ante use an+1-an

(n-2") = 1

(n-2") = 1

n+1-2" - n+2" = 1-2" = 0

e estritamente decrescente

0. 2n-n² = 1

n+1-(n+1)²-(n-n²) =

n+1-(2n+n²+1) - (n-n²)

N+1-2n-y²-x-x + y² = -2n

estritamente decrescente

8. Use
$$a_{n+1}$$
 estritumente crescente ou decrescante

$$\frac{2^{n}}{1+2^{n}} = \frac{2^{n+1}}{1+2^{n+1}} = \frac{2^{n+1}}{2^{n}} = \frac{1+2^{n+1}}{1+2^{n+1}} =$$

12.
$$\left\{\frac{5^{n}}{2^{(n^{2})}}\right\}_{n=1}^{+\infty}$$
 $\frac{5^{n+1}}{2^{(n+1)^{2}}} = \frac{5^{n+1}}{2^{n^{2}+2n+1}} \cdot \frac{9^{n^{2}}}{5^{n}} = \frac{5}{2^{2n+1}}$

estritamente de crescente

27. $a_{1} = \sqrt{2}$ $a_{11} = \sqrt{2} + a_{11}$
 $a_{2} = \sqrt{2}$ $a_{2} = \sqrt{2}$ $a_{3} = \sqrt{2} \cdot \sqrt{2} \cdot \sqrt{2}$
 $a_{2} = \sqrt{2} + \sqrt{2}$ $a_{3} = \sqrt{2} \cdot \sqrt{2} \cdot \sqrt{2}$
 $a_{2} = \sqrt{2} + \sqrt{2}$ $a_{3} = \sqrt{2} \cdot \sqrt{2} \cdot \sqrt{2}$
 $a_{2} = \sqrt{2} + \sqrt{2}$ $a_{3} = \sqrt{2} \cdot \sqrt{2} \cdot \sqrt{2}$
 $a_{3} = \sqrt{2} \cdot \sqrt{2} \cdot \sqrt{2}$
 $a_{4} = \sqrt{2} \cdot \sqrt{2} \cdot \sqrt{2}$
 $a_{4} = \sqrt{2} \cdot \sqrt{2} \cdot \sqrt{2}$
 $a_{4} = \sqrt{2} \cdot \sqrt{2} \cdot \sqrt{2}$
 $a_{5} = \sqrt{2} \cdot \sqrt{2}$
 $a_{7} = \sqrt$

9.3 5.7.18.87.21 = 34

5. Other many sec same converge secondary or costs sea some $\frac{\Sigma}{K=1}(-1)^{K-1} \frac{T}{G^{K-1}}$ $\frac{\Sigma}{K=2}(-1)^{K} \frac{T}{G} = \frac{\Sigma}{K=2}(-1)^{K} \qquad \frac{1}{1-1} = \frac{T}{4} = \frac{1}{6}$ $\frac{\Sigma}{K=2}(-1)^{K} \frac{T}{G} = \frac{\Sigma}{K=2}(-1)^{K} \qquad \frac{1}{1-1} = \frac{1}{4} = \frac{1}{6}$ $\frac{\Sigma}{K=2}(-1)^{K} \frac{T}{G} = \frac{1}{2} = \frac{1}{2} = \frac{1}{2}$ $\frac{\Sigma}{K=2}(-1)^{K} \frac{T}{G} = \frac{1}$

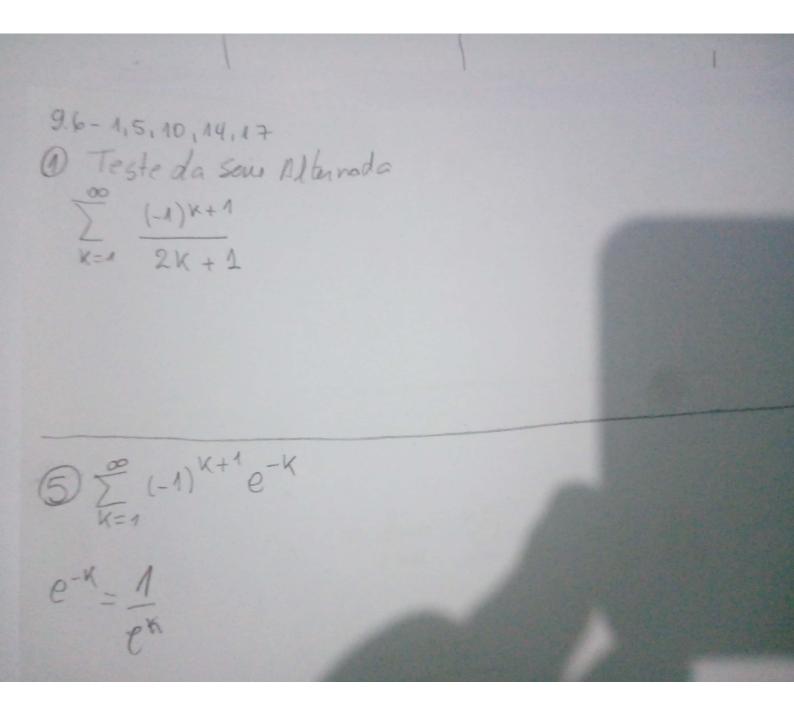
94-4,5.8,10,18e21 4. Identifique pe determine sea sèrie converge 4. (8) $\sum_{k=1}^{\infty} x^{-4/3} = \sum_{k=1}^{\infty} \frac{1}{k^{\frac{1}{3}}}$ (4) $\sum_{k=1}^{\infty} \frac{1}{k^{\frac{1}{3}}}$ $p=\pi>1$ convergente P= 4 >1 convergente (b) \(\frac{1}{2} \) \(\frac{1}{4\track{1}{K}} = \kappa \frac{1}{4} \) \(\frac{1}{2} \) \(\frac{1}{4\track{1}{K}} = \kappa \frac{1}{4} \) \(\frac{1}{2} \) \(\frac{1}{4} (c) \(\frac{1}{3\sqrt{1/5}} \) \(\frac{5}{3} \) \(P = \frac{5}{3} \) 1 \(\convergento \) Aplique o teste da divergencia e escrevo a conclusso (d) \$\frac{7}{2} \tau \text{K=1} \text{K} \text{T} \text{K} \text{T} \text{K} \text{T} \text{Single of teste do divergencia e escrevo a conclusso (d) \$\frac{7}{2} \text{L} \text{No.} \text{Vada pode-se aparmos (d) \$\frac{7}{2} \text{K} \text{L} \text{No.} \text{Volumes of the entire o lun 1 = 0 K-000 KI (b) = (1+1) = e divergente (c) = cos KT divergente lun cos KT \$

3 Ecoda parte use o teste da com paro ção para mostrar que a serie 9.5 - 3,7, 14, 17, 28, 398 48 0=1 v=13 @ 7 1 Kan 3k 45 6 5 5 sen 2 K!

$$\frac{1}{2} \text{ teste of a response}$$

$$\frac{1}{2} \text{ Ke a } \left(\frac{1}{2}\right)^{K} \qquad P = \lim_{k \to \infty} \frac{1}{2} \lim_{k$$

28. 5 K110x = $\frac{1000 \text{ Mere}}{\text{Mx}} = \frac{1000 \text{ Mere}}{1000 \text{ Mere}} = \frac{(K+A)! \cdot 10^{K+A}}{3^{K+A}} = \frac{1000 \text{ Mere}}{3^{K+A}} = \frac{10000 \text{ Mere}}{3^{K+A}} = \frac{1000 \text{ Mere}}{3^{K+A}} = \frac{10000 \text{ Mere}}{3$ = 10 /m x +1 = 00 divog 30. 20 lok -A Palin VInk = Lim KJnK = 1 lim KJnK = 1 9= 1 41 con verge (B) 2 LT/K+1) =



Tostedo porção pero convergencia absoluto $\frac{1}{K-1} = \frac{1}{(-1)^K} \frac{1}{K} = \frac{1}{K} \frac{1}{K}$

