	Prova 1 - Calcula II gai feet Dens Bestonelo RA 112 6 50
	Prova 1 - Calcula II gais feet a Pers Bertonelo
	1 - ) C // 1 - 1 . t. 1 . 2 . in altisermen
	1. a) de calcularmes o limite du seguente.
	J.a) Se calcularmens limite du sequência e setviermens un número real, a sequência será convergente, então:
	0 . // / 111
	$\lim_{n\to+\infty} \left(1+\frac{1}{3n}\right)^n =$
	= lin (enla(1+1/3n) - n +00
	n→+@
	$=\sqrt[3]{e}$
/	que, calculondo en deinal, teremo a seguinte digina.
	lin (1+1/3n) = 1,39 561 portonto, romo Poi encortiado rumense.
	120 Real servencia Konverge.
	0
	b) reguirence a mesma logica do exercício onterno
	e e n' servinier de e n-6 o volen de
	e' e n! servi noier de en a requerir
	az = 21 = 1.2 lai cresur infinitionentis
	02 = 2 = 1.2 dru crescer infinitionentis;
-	2/ 1/23/ Partonto, diverse.
_	$a_3 = \frac{3!}{e^3} = \frac{1.2.3}{e(e.e)}$
	e e/e.e)
	). Salamos como de Loronala da soma dos termos da PA
_0	2. Salemos que of formula du roma dos termos da PA Sn= [a1+an], 1, portoris: a10:a1+9.R
1	3 n = 100 1 7 a nl. 11, poolans.
	$\sim$
S	20 = 130 = (Q1+a1+9A), 20 => 130 = 201+9R=> 26-97-2a1
	$\frac{3}{10} \Rightarrow 130 = (0.1 + 0.1 + 9.1) \cdot \frac{150}{2} \Rightarrow 130 = 20.1 + 9.2 \Rightarrow 26 - 9.2 = 20.1 $
	2-)
5	0 ⇒ 3650 = 101+ 01+91,90 ⇒ 3650 - 20,491 >>
	2
	BAO DOMINOOS 8 A

·······		the	
146 = 49 n = 261	2a1 = 2a1	- Post	
	6-9/1= 146-492		
	402 = 120		
2a1=26-91	2=120		
201=21-27	40		
M=-1 2	2=3		
	t 01.		
Portonto, obtenos es requin	le 1/1.		
$PA = \left\{ -\frac{1}{2}, \frac{3}{2}, \frac{11}{2}, \frac{13}{2}, \frac{1}{2} \right\}$	}		
1/1 - ( 2 ) 2 / 2 / 2 ) 1	Tr j was		
3.PG (=, a, o, q)		(-)	•
$\frac{3 \cdot PG \left( \frac{1}{4}, \alpha, 0, \varphi \right)}{\left( \frac{1}{4} + \alpha + \alpha, \varphi \right) = \frac{21}{8}} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left( \frac{1}{4} + \alpha + \varphi \right) = \frac{21}{8} \Rightarrow \alpha \left$	1+(4)+4)=37	<u>[]</u>	
$\left(\left(\frac{\alpha}{9}\right)^2 + \alpha^2 + (\alpha, q)^2\right) = \frac{189}{64} \Rightarrow 0$			
((g) + a + (a, a) ) - 64		64	
Urando uma varionel aveilio	r, temosque (q+	1 = t , estas	
$q^2 + (1/q^2) = T^2 \rightarrow 2$		•	
· (7) b   0   († 1) = 3	مرا <sub>د</sub>		
em (I) tems! a. (t+1) = 1	$\Rightarrow \alpha^2(x+1)(x-1) =$	189/64 =>	
2m/4/2my, w. 1 = 17			
$2\pi (11   2m)$ , $(21 - 1)$ $(21 + 1) = \frac{11}{7}$ , $(21 + 1) = \frac{17}{7}$	$(x-1) = \frac{179}{60} \cdot \frac{8}{21}$	=>0.(1-1)=9=	1,125
	59 21	ı	
) 0 + + (++ 17) +			-
Diredindo (II) por (I), ten	~wy ,		
$\alpha(r+1) = 21 A = 21$	-7		
Q(X-1) 8 9 9	3		
			_
			j

3) Coplicando regra de 3, tomos:
$\frac{(1+1)}{(1+1)} = \frac{7}{3} \implies (3 + 3) = (7 - 7) \implies 2 + 7 = 7 = 7 = 10 \implies$
$\Rightarrow -4\chi = -10 \Rightarrow \chi = \frac{10}{4} \Rightarrow \chi = \frac{5}{2}$
Supratituindo, temos:
$4+\frac{7}{4}=\frac{5}{2}=\frac{5}{2}=\frac{1}{2}$
partanto, monipulando, terros:
$2q^{2}-5q+2=0$ $\Delta=25-16$ $\Delta=9$
$a = 2$ $b = -S$ $ a  = -\frac{1}{2}$
(= 2  q" = +2
substituindo fra (I);
$\frac{(1+1+\frac{1}{2})-21}{(\frac{1}{2})} = \frac{(7)-21}{8} \Rightarrow \alpha = \frac{1.2}{8.7}$ $\alpha = \frac{3}{4}$
patonte, estrês mueros revis en PG esequisitados retes
$PG\left(\frac{3}{8}, \frac{3}{4}, \frac{3}{2}\right)$
9.40 DOWNINGO BAR

= 5 = a(3n-2) + 1(3n+1) = >(3×+2)(3×-2) 5 = 3.0.n-2a + 18n+ 8 = => 3.0n+ 5 = 3n(a+B)+B-2a A+B=0  $S=B-2a \rightarrow 5=B-2\left(\frac{-S}{3}\right)$ A+ (S+2A)=0 S+2a=B Entire Portanto,



