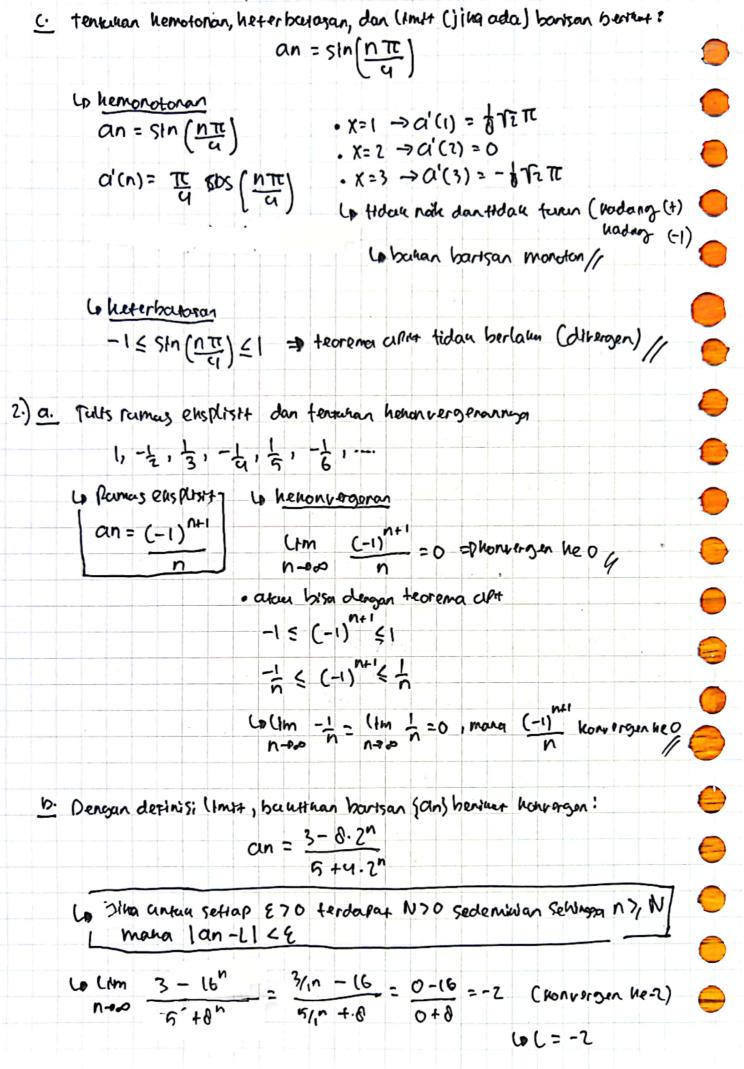
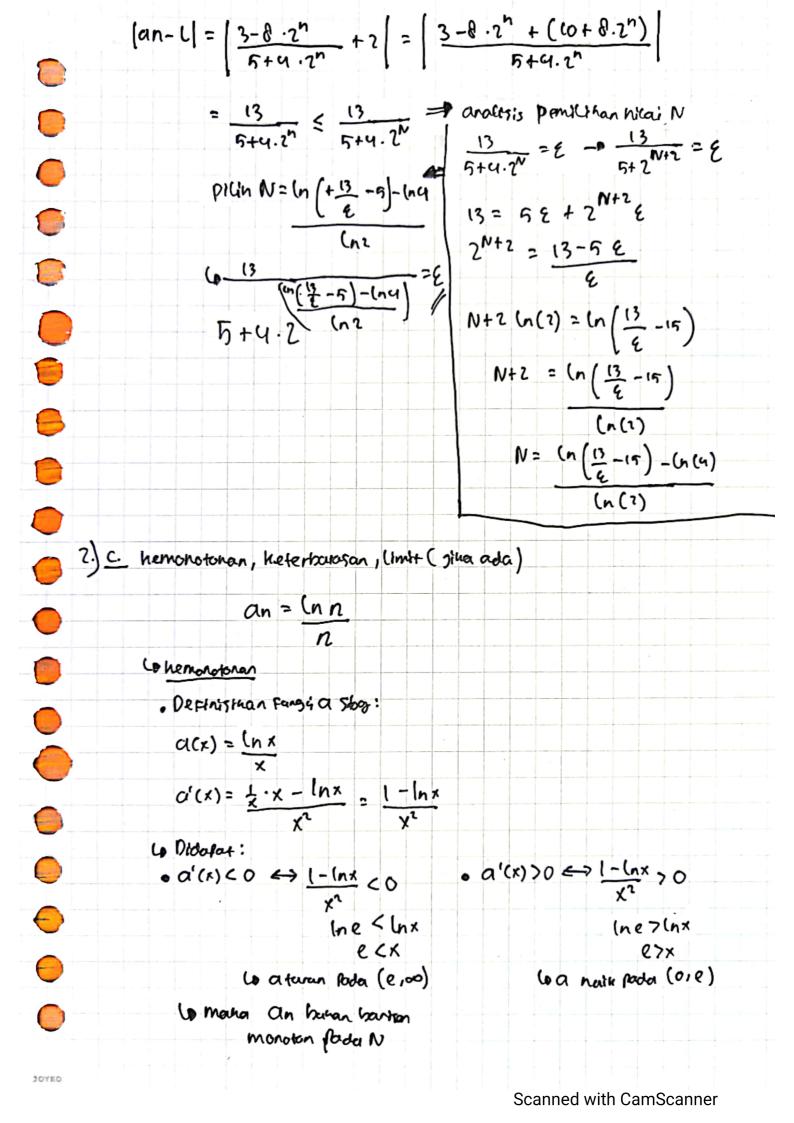
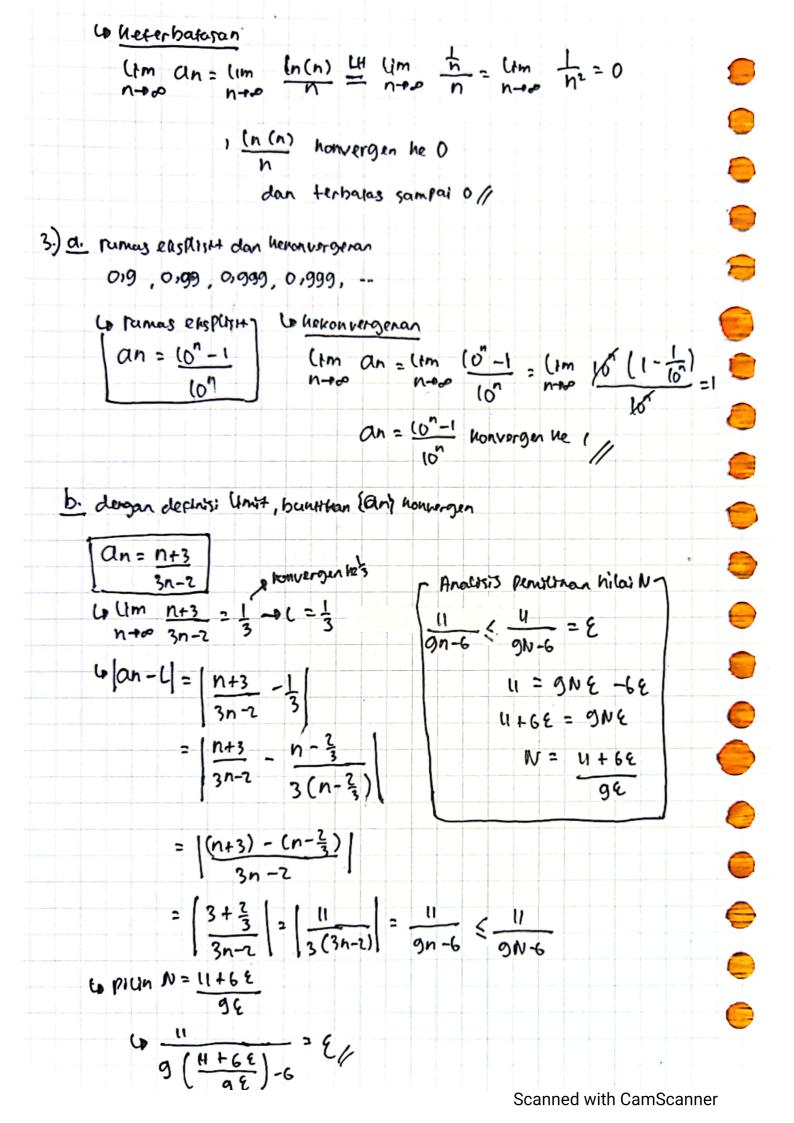
	Angga Fathan Roftqr _ G1401211006
	1) a. Tulis rumus eksplistt barisan berikut dan tentukan hekonvergenonnya:
0	$\cos \pi$ , $\frac{\cos 2\pi}{4}$ , $\frac{\cos 3\pi}{9}$ , $\frac{\cos 3\pi}{16}$ ,
	Le Phimus eusplisif T Le hehonvergenan
<b>D</b>	$\frac{2n = \cos n\pi}{n^2}  (+m)  \cos n\pi = pahe + eorema$ $\frac{1}{n^2}  \frac{1}{n^2}  $
	-1 ≤ cos (n TE) ≤ 1
	$\frac{-1}{n^2} \leq (\cos (n\pi)) \leq \frac{1}{n^2}$
0	Clm $-\frac{1}{n^2} = \frac{1}{n+\infty} \frac{1}{n^2} = 0$ , make $\frac{\cos(n\pi)}{n^2}$ honkergen be $0$
<ul><li></li><li></li><li></li></ul>	b. Dik: sang honrorgen ke A dan slong honvergen he B Dit: bautthan (dag defins: Umrt) sangtions honvergen he AtB
	Le harera an honrergen ke A dan bn honrergen he B, maka:
	Cim $an = A $ $\begin{cases} lim (an \pm bn) = (lim can \pm (limbn) = A \pm B =$
	(Im bn=B) n-000 n-00
	. Untuk Setta P & 70 terdapat Ni20 . Untuk Settap & 20 terdalar N220
	Sedemilian sehingga N7, N. Sedemilian sehingga N7, N2
	berlaku:   an-A   < 2 E berlaku:  an-B   < 2 E
	Le plus N= max {N, N, 3
	an + bn - (A+b)  =  (an-A) + (bn-B)
	€ lan-Al + [bn-B]
	< \\ \{ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
	2 8//
	4) ferbuuti bahaa (Im (antbn) = A+B

JOYKO







3.) C. hemonotonan, heter batas, (Int) ( jina ada)

$$an = \frac{n!}{(0^n)!}$$

Uhemonotonan

$$\frac{Qn}{Qn+1} = \frac{n!}{(o^n + 1)!} = \frac{n!}{(o^n$$

$$\frac{a_n}{a_{n+1}} < 1$$
;  $n = \{0, 11, 12, ..., (note)\}$   $\frac{a_n = n!}{a_n}$  between  $\frac{a_n}{a_{n+1}} > 1$ ;  $n = \{1, 2, ..., 9, (tou noise)\}$ 

$$\frac{1}{1}$$
  $\frac{1}{1}$   $\frac{1}$