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	Nama: Promos Ray Lapian
	News: 1908(0210059) - A
	1/5/2.9
	{an} = \ qn2+1
	$\left(n^2-2nr^3\right)$
	p(x) = 4x2 +1
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	lim 4x2H 2 x2(a+ x2) = A+0 = A
	2 900 x2-2x13 x2 (1-3x+5) 1-0+0
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	carera   im p(x) :   im an = a, make   an H }   convergen be a
	West of the state
2.	$\begin{cases} \frac{1}{2} a   \end{cases} = \begin{cases} \frac{3n^2+1}{2} \end{cases}$
	\(\frac{1}{n-1}\)
	f(a): 3x2+2
	sc+1
	lim 3x2+2
	x-000 x+1
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	lcarena (m f(m): lim on=00, maka {3n2+2} divergen
	12 PO 11 - PO / - / - /
=	CnH )
3,	$\{a_n\} : \{ \sqrt{n} \}$
	l ny )
	f(a) = 5x
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(5) { an} 2 \$ ln (n) }	the Arman Services
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F(x) = x	4. 10.2
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x+0 xH x(0+ x)	) <u>1</u>
(0+x)	Kenny man kel
berena $\lim_{x \to \infty} f(x) \cdot \lim_{n \to \infty} a_n = 1$ , maka $\begin{cases} n \\ nH \end{cases}$	white you
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7.	$\{an\}^2$ $\{an \sin n\}$
	P(x) = x sin fl
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	lim sin x
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	lim -11 x-2 (os x = 11 (os 0 = 11 (os 0 = 11)
	x8 00 -x-2 ye
	karena lim $p(x) = \lim_{n \to \infty} a_n = 0$ , maka $\{n \times n - n\}$ be nurgen be $[n]$
	x-000 n-000
Q.	$\frac{1}{3}$ an $\frac{1}{3}$ = $\frac{1}{3}$ $\frac{1}{3}$
	F(x); n2-x
	\lm x2x = 22(1- n)
	$\lim_{x \to \infty} \frac{\left(1-\frac{1}{x}\right)}{x} = 1-0$
	X JA XI D
	Carena lim F(x) = lim an =00 mara { p2-n} divergen
	2 -5 % n - D p
<u>9.</u>	{an}: \ n2 \ sin \ \(\ell\)
<del>_</del>	(2n)
	F(x); x2 Sm I
	2XH X
	$\lim_{x\to \infty} \frac{(x^2) \sin \frac{\pi}{x}}{\sin \frac{\pi}{x}} = \frac{(x^2) \sin \frac{\pi}{x}}{\sin \frac{\pi}{x}}$
	247 2(2+ 2)
	$\lim_{N\to\infty} x \leq_{N} \left(\frac{x}{x}\right) = \underbrace{\mathbb{I}_{x^{-2}}\left(\cos x \leq_{N}\right)}_{\mathbb{I}_{x}}$
$\overline{}$	$\frac{7 \lim_{x_1 \to 0.00} 2 + \frac{1}{x}}{x_1 - 0.00} = \frac{2 + \frac{1}{8}}{2 + \frac{1}{8}} = \frac{2}{2}$
10.	Sa 3 = (an 2n )   A a a 21   16/2
	Tung of te fine term etter
	$C(x) = 0^{x} + 0^{2x}$
1	
S	karona $\lim_{x\to\infty} F(x) = \lim_{n\to\infty} a_n = \frac{1}{2}$ , maka $\left\{\frac{e^n + e^{2n}}{2e^{2n}}\right\}$ knowingon be $\frac{1}{2}$

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carena ? divergen, malca & divergen	
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	$n=1$ $4n^2H$	
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<b>6.</b>	Sugar & care 5 1 & 20 (convergen:	
	n <sub>30</sub> n l <sub>n</sub> <sup>k</sup> n	
	( dx lim ( dx - lim ) ou - lim (	n v-e
	2 × (n × 2 · 0 · 2	
	lim 1 (lnx)-k+1 7b lim 1 (lnb)-k+1 = 1 (ln2)	-k+1
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