	Date
	Mama: Prames Ray Lapian
	NIM. 1400 OF CO.
	Matkel: Kalkulus I
	5 x dre rungs f(x) terdefinisi pada salang (0,1)
	$\int_{-\infty}^{\infty} dx = x + 1 = 0$
	1 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	$= \frac{1}{a-b} \frac{0^{+} - 3a}{(-3(1)^{-1/3})} = \frac{1}{3} + 3(a)^{-1/3} = \frac{3}{3} + 0 = 0$ (Divergen)
2.)	(10 2 dx Fungai F(x) terdefinisi pada selong (5,10]
	$\sqrt{x-5}$
	(10 2 doc - lim (10 2 doc -
	c) \[ \sqrt{x-5} \]
	- lim 10 4/21-5-
	Lab Lab
	15m = b-ps+ (4/10-5 - AVb-5) = 4-0 = 4 (konvergen)
$\frac{\square}{3}$	C' a d E (Ely) besteviste and colors (D.1)
	of 2 de Funga F(x) terdefinis pada solong (0,1)
	$\int_{1}^{1} 2 dx = \int_{1}^{1} 2 + \int_{1}^{1} 2$
	2/1-x 8 2/1-x2 2 2/1-x2
	$\int_{-\infty}^{1/2} \frac{1}{2} dx = \lim_{x \to 0^{+}} \int_{-\infty}^{1/2} \frac{1}{2} dx = 2 \ln \left( \left  \csc(\sin^{-1}(x)) - \cot(\sin^{-1}(x)) \right  \right)$
	$= \frac{1}{2} $
	$= \frac{\lim_{n \to \infty} + 2 \ln \left( \left  \csc \left( \sin^{-1} \left( \frac{1}{2} \right) \right  - \cot \left( \sin^{-1} \left( \frac{1}{2} \right) \right) \right  \right)}{2 \ln \left( \left  \csc \left( \sin^{-1} \left( \alpha \right) \right  - \cot \left( \sin^{-1} \left( \alpha \right) \right) \right  \right)}$
	= -00 (Divergen)
	CVIII I
<u>A.</u>	2 dx fungsi F(x) terdefinisi pada selana (1,2]
	$(x-1)^{73}$
	dx: lim dx
	1 10
	$=\lim_{C\to 1^{+}}\frac{3(x-1)^{15}}{2}$
	im 3 1 3 2 3 1 32 3 1
	$= (-0)^{\frac{1}{2}} \left( \frac{5}{5} (2-1)^{\frac{1}{2}} - \frac{5}{2} (2-1)^{\frac{1}{2}} \right) = \frac{2}{2} \left( \frac{1}{12} \left( \frac{1}{12} \right) + \frac{2}{12} \left( \frac{1}{12} \right) + \frac{2}{12}$

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S	In x dx funger F(x) terderivirer poda celong (0,1)
	12 -P D
	D X
	$= \lim_{n \to \infty} \left( \ln x \right)^{2}$
	12-120 2
	V. = D ()
	2 2
	,
6.	( dre Fengei Fire) terderinisi pada selang (3,7)
-	
	$\int \frac{dx}{dx} = \lim_{p \to p} \frac{dx}{dx}$
	3 12-3
	= lim 2 \10-3
	D-03
	and the second s
	$= \frac{1000}{1000} \cdot (2\sqrt{7-3} - 2\sqrt{0-3}) = A \text{ (konvergen)}$
IL	1 de Mario (12) terdofinis, podo Colona 1-12)
	$(\pi^{-2})^2$
	$\int_{-\infty}^{\infty} dx = \lim_{n \to \infty} \int_{-\infty}^{\infty} dx$
	-1 (x-2)2 a -7 2 -1 (x-2)2
	, I q
	$=\lim_{\alpha\to\infty} \frac{1}{(\alpha-\alpha)}$
	( ( ( ) ) ) - ( )
	$\frac{1}{a-b^2} = \frac{1}{a-b^2} = -\infty  \text{(Averagen)}$
	$a-p^2$ $a-2$ $-1-2$
2.	( de Fungii P(x) terdefinici pada celang (-2, -1)
	( ) 2/3
-	1 ( det
	1-23 (RFI)
	=  in -3   P -b -1 (24) 1/3   -2
	$\lim_{n \to \infty} -3 = -\infty  (\text{Pivergen})$
	P-P-1 (P+1)1/3
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(3) (3 dx fungsi F(x) terdefinisi pada selong (0,9)	
ling ( dx	
10 - x - bg - x	
(im 2 - 2 ) (a - 2(   0 - 1 ) )	
$\frac{1}{100} = \frac{1}{100} = \frac{1}$	
4) 13 x dx funça flat terdefinisa pada solong [0,3)	
4) 13 x dx funga flict ferderins	
0 9-x <sup>2</sup>	
0 - 2 = 0	
$= \lim_{n \to \infty} \frac{1}{n} \left( \frac{1}{2} - \frac{1}{2} \right) \left( \frac{1}{2} \right)$	
Q-P3 2	
$= \lim_{n \to \infty} \left  \ln(9-2^2) - \left  -1 \ln(9-0) \right  = -\alpha$	o (Divergen
Q -0 3 2 2	
5) (2 dx fungsi f(x) terdefinici poda selong [0,2)	
σ	
$\frac{1}{3x} = \frac{1}{100}$	
$= \lim_{\zeta \to 0} \frac{\sin^{-1}(1-\chi)}{2}$	
$\frac{1}{(-p)^{2}} \frac{\sin^{-1}\left(\frac{1}{2}\right) - \sin^{-1}\left(0\right)}{2} = \frac{\pi}{2} \left(\frac{\log \log n}{2}\right)$	
(->2 /2 /2 /2	
(3 x dx fungsi f(x) terdofinisi pada solong [0,3)	
$\frac{1}{2} \int_{0}^{2} \sqrt{9-x^{2}} dx = \lim_{x \to \infty} \int_{0}^{2} x dx$	
$\frac{1}{\sqrt{9-x^2}} \frac{\sqrt{9-x^2}}{\sqrt{9-x^2}} = \frac{\sqrt{1-x^2}}{\sqrt{1-x^2}}$	
= /im /9-x2 /	
$= \frac{1}{A-3} \cdot \frac{1}{3} - \frac{1}{3} \cdot \frac{1}{3} - \frac{1}{3} \cdot $	
Convergen	
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