Nama : Assychrin Nanda

Nim : 13020 2003/8

1.9) 
$$\lim_{t\to 2} \frac{\sqrt{(t+\frac{1}{2})^3}}{4t+4} = \frac{(t+\frac{1}{2})^2}{4t+4}$$

$$= (2+\frac{1}{2})^2$$

$$= (2+\frac{1}{2})^2$$

$$= (2+\frac{1}{2})^4$$

$$= \frac{C_{1}m_{1}}{4^{1}} \times -2$$

$$= \frac{4-4}{x\sqrt{x+2}-4\sqrt{x+2}}$$

$$= \frac{4-2}{4\sqrt{4+2}-4\sqrt{4+2}}$$

$$= \frac{2}{4+2-8+2}$$

$$= \frac{2}{4} = \frac{1}{2}$$

2. a) lim Sinyx 4	
2. a) lim Sin4x 4 x-00 3x2+5x 32+5	
= 4	
9+5	
- 4	
14	
= 2	
†	
b) ( == 1 = 2 = 1 = = = = = = = = = = = = =	
b) (im /25x2-92-6-5x+3	
x-000 \25x2-gx-6- \((5x+3))^2	
(im x 00 \ 25x2-gx-6 - \ (5x+3)2	
× 00 \ 23x - 9x - 0 = \ ((3x13))	
_ (im	
x-000 /25x2-9x-6- /25x2+30x	K+0
$25 \times^2 - 9 \times -6 - 25 \times^2 + 30 \times$	19
x-p 00 \[ \sqrt{25x^2-9x-6} - \sqrt{25x^2+30x} \]	
1	
1 cm 2121+3	-
x-000 \(\frac{25\times^2 - 9\times - 6 - \sqrt{25\times^2 + 30\times +9}}{\times^2}\)	P= 21+3
(im 21x + 3	125-9-6-125+36
X-000 X X	0 0 0
125x2-9x-6-125x2+30x+9	= 21
×2 ×2 ×2 ×2 ×2 ×2	25-VIS
um 21 + 3	21
X-DOD X	=======================================
$\frac{55 - 9 - 6}{x^2} - \frac{125 + 30}{x} + \frac{9}{x^2}$ REDMI NOTE 9 PRO $\frac{1}{x^2}$	//

X. = 289+19 308

O REDMI NOTE 9 PRO A

AI QUAD CAMERA

3. a) 2x2+5x+3 (0

jawab

 $X_{1,2} = -b^{2} + \sqrt{b^{2} - 4ac}$   $= -5^{2} + \sqrt{5^{2} - 4(2)(3)}$ 

C) 14x2+11x+56(	3
jawab	
X1;2 = -62/62-4ac	
20	
= -112+ \112-401	4)(-15)
2(11)	
= 1211/121+84	16
22	
= 121± V 961	
= 121±31	
22	
X1: 121+31	×2 = 121-31
22	22
= 152	= 90
22	22
= 76	- 45
	11



4. a) 
$$\left(\frac{x+3}{2x-1}\right) \leq 2$$
 $\left(\frac{x+3}{2x-2}\right) \leq 0$ 
 $\left(\frac{-2x-6}{2x-4}\right) \leq 0$ 
 $\left(\frac{-2(0)-6}{2(0)-2}\right) = \frac{-6}{-2}(+)$ 
 $\left(\frac{-2(0)-6}{2(0)-2}\right) = \frac{-6}{-2}(+)$ 
 $\left(\frac{-2(0)-6}{2(0)-2}\right) \leq (x+10)$ 
 $\left(\frac{-2(0)-6}{2(0)-2}\right) \leq (x$