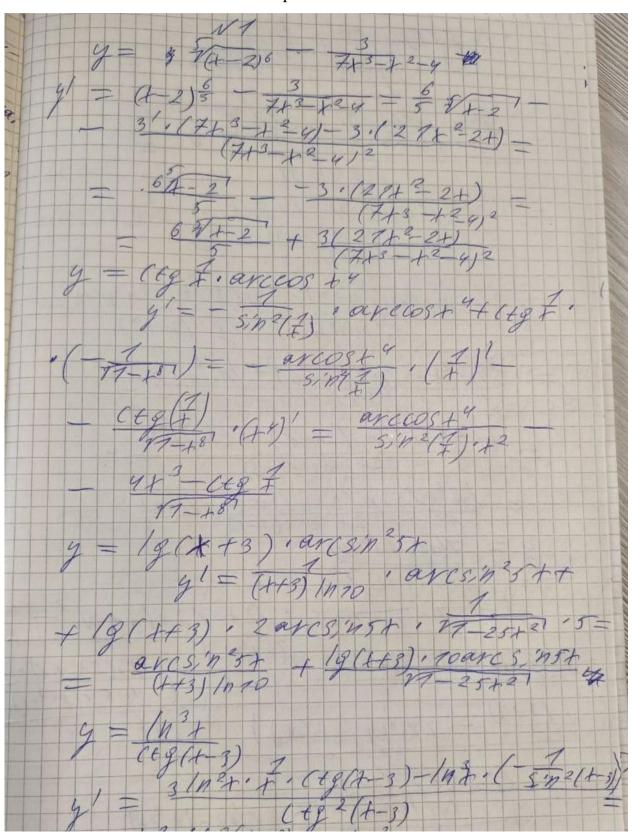
Индивидуальное домашнее задание №2

По дисциплине: «Математический анализ»

Курс 1. Семестр 1 Вариант №11

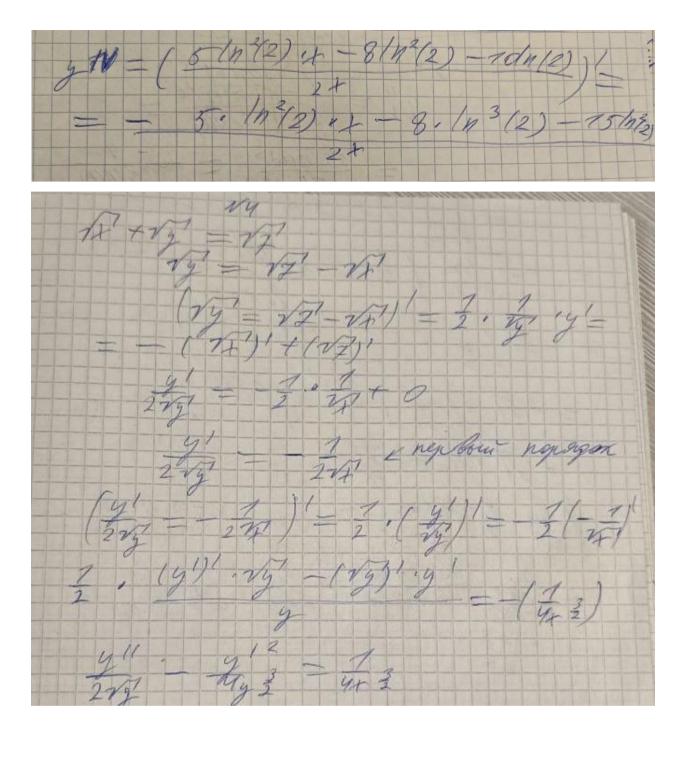


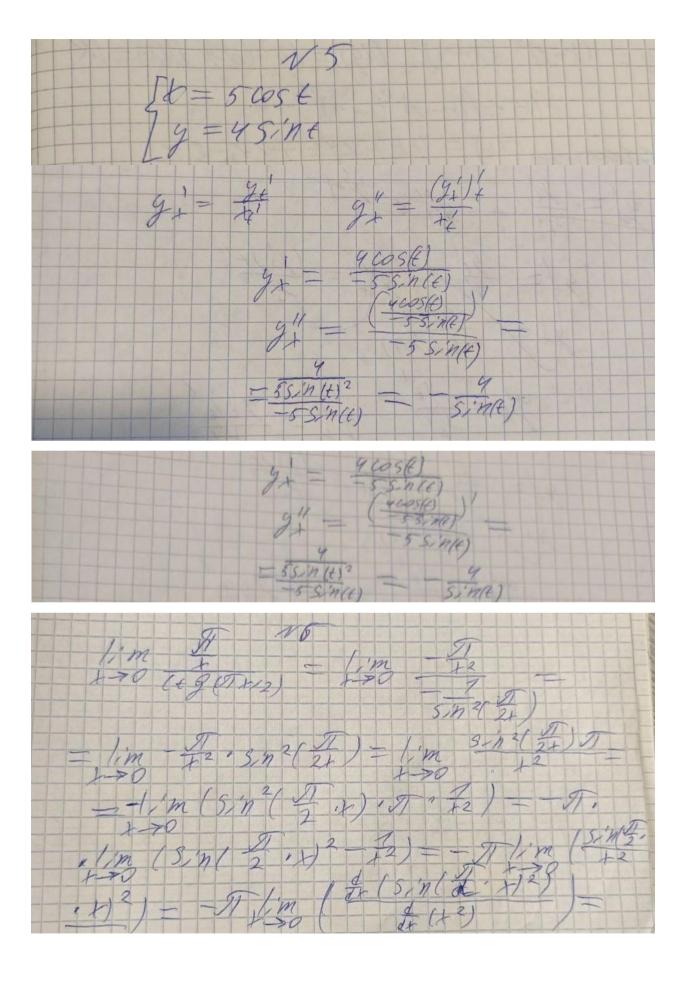
3 /n²+ ctg(+-3) + ln³+ + s/n²(+-3) ctg² (h-3) 3/2+, cos(+-3) + 1/1 3+ + 5/n(+-3) + 5/n 4+3) = 5/n(+3)/n 2+. (08(+3) +/n3+1+ -+5/n2(+3) - 14 (6g2(+3) 3/12+ cos (+-3) · Sin(+-3) + ln3++
+ · Sin(+-3) · Ctg 2 (+-3) $= \frac{3}{2} \ln^{3} + \cdot \sin(2x - 6) + \ln^{3} + \cdot \ln \frac{1}{2} + \frac{1}{2} \cos^{2}(x - 3)$ - ln 3+ 15/1 (2+6) +2+ 103+ 2+,6052(+-3) = 1n3+(s/n(2+-6)+2+./n+)
2+1052(+-3) $y = \frac{2 + \cos^{2}(x-3)}{(x+3)^{3}}$ $y' = \frac{7 \cdot 705 \cdot (1+4x)}{(x+3)^{3}} \cdot (2+4) \cdot (2+4) \cdot (2+3)^{3} - \frac{1}{2} \cdot (2x+4) \cdot \frac{1}{2} \cdot \frac{$ (14x+7).(++3) 115 (124x) = 21/09- (+2+1) (++3)4

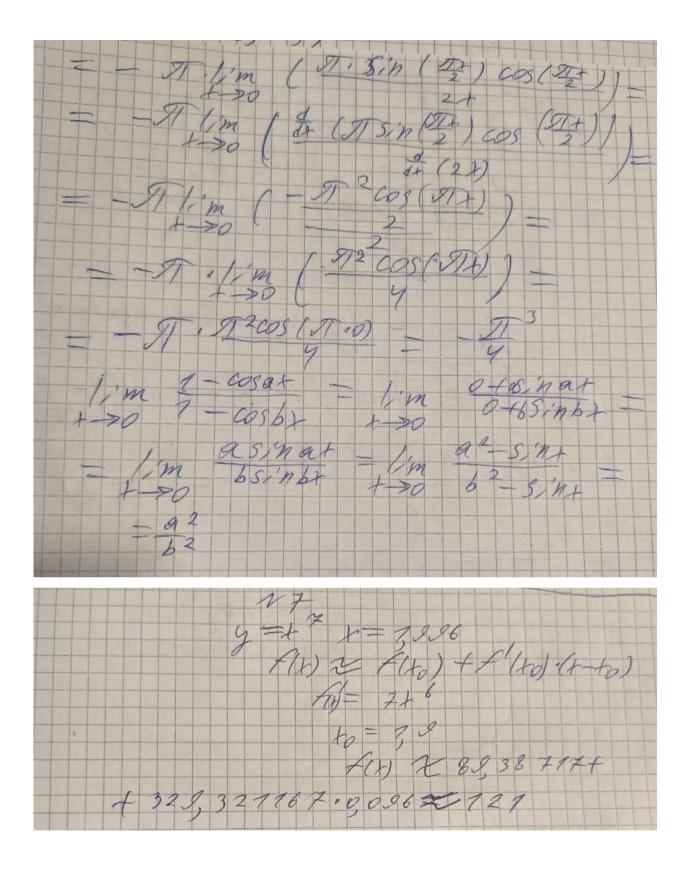
9 t 2 +49+ +2) 27/0g, (+ 2+4) 2++21-2 Nog (+3+1). Ins 1474 195 (+27-270 log (+2+4) 115 · (+ 3+x) Eg(3235) 2(2+-3)-(2++3)-2 (2+3)2 24+37 5/2/3/2/5) (() (3+ 35) 6 12+-31, cos(3x35) 12++31 (24-5) SINGA 5/22 (31345) 5/1/2/32-75/2 12++31 3/0(+5/4+) tsint (ASint) 3/n (+sint) / (8/n2(+sinx)) $8/n^{2}(+sin+)$, $(8/n^{2}(+sin+))'=$ $8/n^{2}(+sin+)$, 2, (n(+sin+), +sin+) $(n+++cos+)=768/n^{2}(+sin+)$,

· (n (+s/n+) · +s/n+ · (s/n++ + cos+) = 16 (+s/n+) · (s/n++cos+) · (n(+s/n+) y = (arc tg 5x) logo (x+4) = y'= e lacarceg 5x) logo (x+4) = = e la (aret 9 54)/eg2 (449), (aret 954 " 745). 15 ant g 5+) log 2 (+ +4+1), (In (+44)) + (arct g 5+) log 2 (+ +4), (25+3+100+2+x+4) 144-29=0 $y = \frac{7(y) = 9y^{3} - 2}{9y^{3} - 2} = \frac{2y^{3}}{2(2y^{3} - 1)} = \frac{2y^{3}}{2y^{3} - 2}$ $y = \frac{7(x - 3)}{(x + 7)5} = \frac{(x + 7)5}{(x - 3)^{\frac{3}{2}}(x + 7)^{5}}$ $y' = (\frac{1}{3}, (x - 3))^{\frac{3}{2}}, (x + 7)^{\frac{1}{2}} + (x - 3)^{\frac{3}{2}}, 5(x + 7)^{\frac{1}{2}}$, (x-4)2-(1-3)3 (1-4) 5, 2 (h-4) - ((1+7)5 + (15+ -45), (+47)4), (t-4)+ 3.1 (4-3)27 1(4-4)3 11-624-18), (247)5 y= = = (y1n-n) / (4) - 4/2-420

14. n 1/2 -(n+2) 3 4 (4+2) 12 +-8/n(2)-5/1/2)-8 8/11/2 10/11/2 8

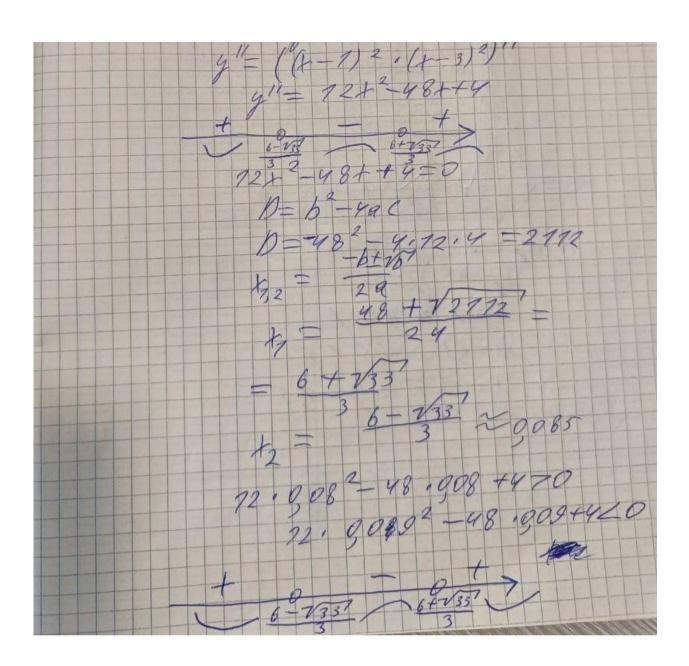






=1909 2 Alle) + Flesh 1 (x) 2-1+7.08=9,6 y = (1-1)2 (1-3)2 D(y) = (0,+00) D(b)=1R +6(x-1) = 0 4(x-1) (x²-5x+6) = 0 $\frac{9(x-1)(x(x-2)-3(t-2))=0}{9(x-1)(x-2)(x-3)=0}$ экстремуны 5 = 2 1=3

goynny. V 1) 2- (3-3) = 0 -0,'1) V (2,'3) gay sing.
(1,'2) V (3,'+0) repector (scoro nanganam 9 morcha 00000 (-4-3)= 1223 remnas pu Um mang 1)2(4-3)2



1, m (+-1)2(x-3)2 - 1im (00-1)2(x-00-3) +->00 =00 1/m (2x-1)2x-3)2=1/m(1-1)2(t-3)= Асициптот нет т. н. другинушя >000 marsko enu +-700

b(x) = (1R) U(xx) - Mange $(-3+1)^2$ x=-3 200+ - Minghaya 2+x=0 2+x=0 y=2-morna reperer. y=2-morna reperer. x+-xy + x(x) += xy-3 2-3 - -xy жина u rémpina neremman 2 x + 8 2 x + 1,4 4 - marina nenermon

1/m $(x+y)^2 = (-y+y)^2 = (-y+y)^2 = 0$ - beginning. 1/m $(x+y)^2 = (-2+y)^2 = 0$ - roping. $x \rightarrow -2$ (x+y) = (-2+y) = 0 - roping. $k_1 = 0$ y = 2 $k_2 = 2$ y = 9,5 $k_3 = -2$ $y_3 = 0$

+ = 2005 (hg) · (-5, 'n (hg)) · y + 0= + y) · (-5, 'n (hg) - y = -5, 'n (2+g) · g = 2005(hg) · (-5, 'n (hg)) · x + 0 = 4)=-Sin(2.4. 317261

726 SIN mempenye na

