Будагян Артем Игоревич, 1 курс ИВТ, 1 подгруппа

211.3.18	
1,07,97	
f(x;y)=x3	
The state of the s	-1,07-1=0,07
y=3,97 y=9 Ay=y-y=	3,97-4=-0,03
f(x, ; y,) = f(1; y) = 1=1	y = 3 1y = y - y = 3, 97-3=0,94
burnamene des ryudioneenus	1-0,031 2 10,991
1) f(xo; yo) = f(154)= 17=1	ignue
	X 8-1 /x=; g=) = y -x 8-1 /n; 4) = 4.1 = 2/3
3) fy'(x=; y,) = (x ") y (x, y,) = x"	
1.0 = 0	pesgel (1)4)
4) f(1,07;3,97)=[1,07 ^{3,92}]	~ [] 4.0 p. 7.10 ()] =
= 1+0,28+0=1,28	
MII. 3.1.	9
1,04 ,03	
f(x; y)=x8	
X=1,04 X=1 AX=X-X	.=0,04
	CN. NII. 3.18
$y = 2,03$ $y_0 = 2$ $y = y - y$	

N11.3.20 ((1,04)+13,01) 2? \$(x;y) = Jx + y= X=1,04 X=1 AX=X-X+=0,04 y=3,01 y=3 sy=y-y=0,01 1) f(x6; y0)= 112+32 = 11+9 = 500 2 frx)=Jx X=10 X=9 AX=1 = 3+ 6=6 23,1(6) = 3, 2 N11.3. 21 5 in 28° - cos61° 2. f(x,y)=sin(x)cos(y) X= (28) 28 X=(30°) 30 AX= X-X=(-2°)-2 y=(01)(1 y=(00)60 Ay= y-y==(10)1 V11.3.22 J151021,55+ 8.00,015751 f(x;y)= f(sin'x +8-e") = (sin'x + 8e8) \$ Df: (x; y)=((sin*x+8e*)*)}= = 1.1(sin x+8e*)**). 12 sinx · (sinx) +0) = 2 2 2 sinxcosx (sin X18e:) =

2 sin(2X). (sinx +8e0) 2 2) fy (X;y) = ((sin*x+8e*) 3/2) = = ((sin*x+8e*) = 2 8e8 (5in x +8e8) = 20.8 "(5in x +8e8) 1/2 3) X=1,55 X=1,571= 2 y = 0,015 $y_0 = 0$ $y_0 = 0$ $y_0 = 0,015$ $y_0 = 0,01$ = J94.9 = J(92)2.9 = 92.3 = 81.3 = 243 5) fx (xo; yo) = (2 sin(2x)(sin2x+8e8)32) (20) = = 2 - sin(1. =)(sin = +800) = = 2 sin si(12+8.1) = = 2 () fy 1 x ; y) = (20e 4. (sin x + 8e4) 4) / = = = 20.8°(5;n2 = +88°) = 20.1.(12-8.1) = 20.9 = 20.93 = 20.93 = 20.93 = 20.93 = 76-9-3= 180-3=546 7)f(x;y) = f(x;y0) + fx(x0;y0) · x+fg(x0;y0) xy f(1,55;0,015) = 243+0. (-0,021)+540-0,015=243+540+0,015=25/31 The come Sisin 1,55+810,015) \$ 251,1