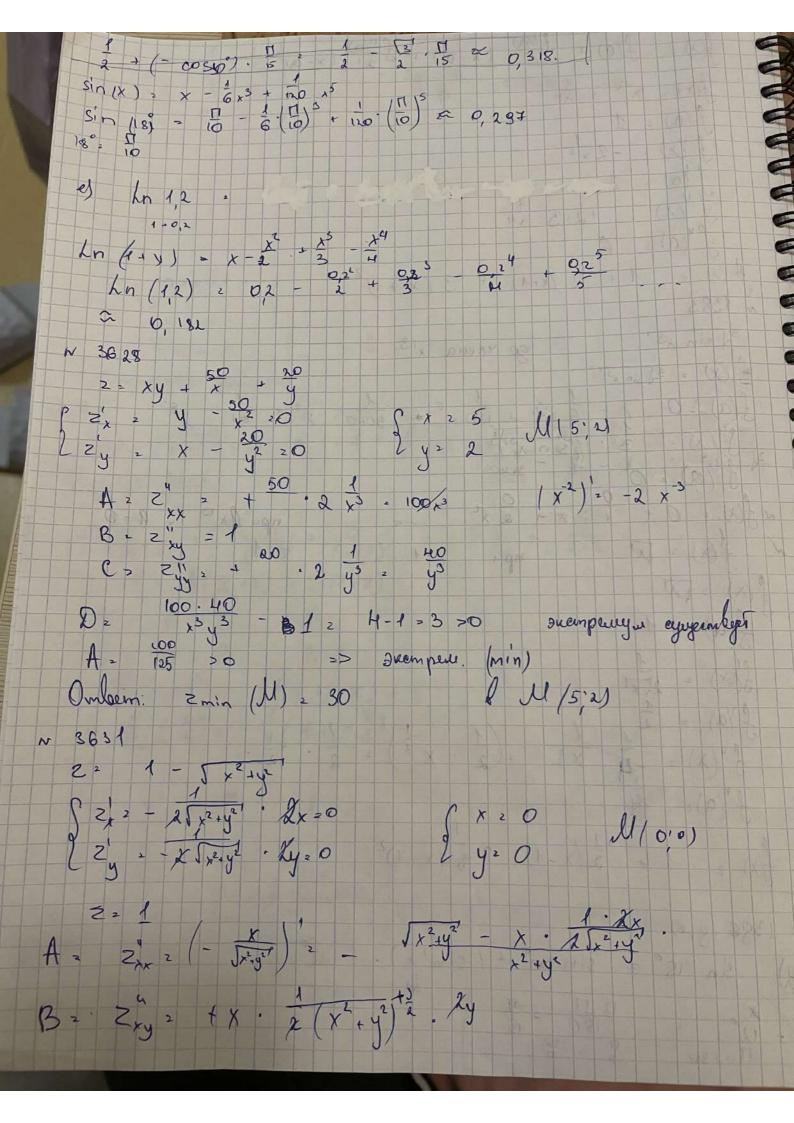
Py : 2 Lyg: 2 Lyg: 2 6. U, npu a, 6 50 Zmin 2 Do mames powoma $f(x) = \frac{3-z^2}{(1+2)(2+z)} = \frac{3z+5}{(1+z)(2+z)}$ N. 7.6 - 2 + 3 2 + 3 z + 2 - 1 $\frac{3z+5}{(1+z)(2+2)}$ $\frac{A}{(1+2)}$ + $\frac{1}{(2+2)}$ $\frac{2}{(2+2)}$ $\frac{1}{(2+2)}$ $\frac{1}{(2+2)}$ 32+52 A(2+2) + B(1+2) 13 = A + B A=2 25 = 2A + B B=1 $2 \stackrel{\sim}{\geq} (-2)^{2} = 2(1+(-2)+2^{2})$ 1 2 5 (-2) 2 1 (1+(-2)+2) ZI 21 $f(x) = e^{2}(1+z)^{2} - 6 = 2 = 0 = 1 + 11x + 2x^{2} + 6x^{3}$ $\int_{(x)^{2}} e^{z} = \sum_{n=0}^{\infty} \frac{1}{n!} z^{n} = 1 + z + z + z + \zeta$ $\int_{(x)^{2}} (x) = (1 - z)^{10} = \sum_{n=0}^{\infty} \frac{1}{n!} (x) - (x) - (x) + (x) - (x) + (x) - ($ J(X) = 2-2 22-1

f(x) = f(a) + f'(a) (x-a) . f(x) = x = = 1 f(a) = 1f(x) = -2f(a) = 2f(a) = 2f'(a) = 6f''(a) =1 + 2 (x+1) + 3 (x + # (x) z n 1383 x13 go renema 3 \ sin x3' x - 6 x3 + 120 x 5 5040 9! s'in (x) = 18 - 3240 x-N 1388 f(x) = x f(x) = x f(a) = 1npu f(a) = 2 f'(a) = 2 f'(a) = -2. 1 (x-1) 1396 (9,0) 18° = sln 30° + Sin x 180 212



C - 120g Onlem: < (max) = 1 6 1. U/0;0) 3667.1 ypalmene Aarpannea L= 8(x,y) - 1 (x,y) 2 (x2 +y2 -4) 1 2 Ax2 + 2Bxy + Cy2 Lx2 2Ax + 2By + 2xx Ax + By + xx =0 Bx = Cy + xy =0 x2 + y2 = 1 L'y = 2Bx + 2Cy + 2 xy 2 = x2 + 12xy + 2y2 4x2 +42 = 25 Ypabueum Larpauma L= f x,y + 2 4 (x,y) L2 x2 + 12xy + 2y2 + A (Hx2+y2 - 25) x + 6y + 41x =0 6 x + 2y + xy =0 4x + y = 25 2 2 3 2 4 4 4 2 = 25 2 4 4 4 2 = 106 $\frac{1}{2} = 2x + 12y + 8 \lambda x = 0$ $\frac{1}{2} = 12x + 4y + 2 \lambda y = 0$ X2 = 2 ' y = +3 Mp = Z min = -50 hys 2 H + 2 -18 (1) x 2 8x Liy 2 12 4 y 2 16 16 -18 12 \$ 2min = -50 (+21+3) 40 => 12

2 , 2 , 6x + y2 + 2y+9 -4 5 X 5 -2 -25 y 5 0 hx 2 x2+6x +y2 +2y +3 2 2 xx 2 2 B 2 2 xy 2 0

C 2 Zyy 2 2

D 2 H - 0 > 0

Onloem: Zmin 2 hpa-4x < -2 -2= y =0 2 max 2 1