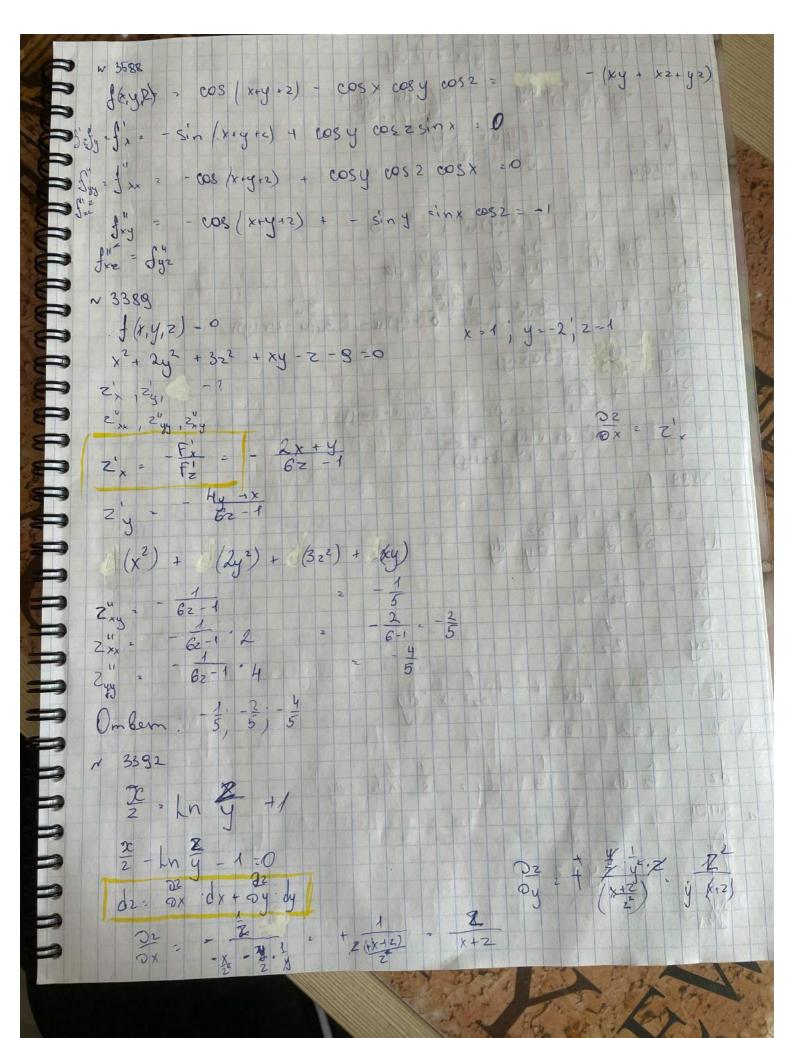


cos x chy) $\sum_{n=0}^{\infty} \frac{1}{(2n)!}$ 3599 f (x,y) = sin (x2+y2 2000 sin 3587 M cos y $\frac{1}{2}\left(-1\left(x^{2}\right)\right)$ f(x,y) = f (a,b) 2 - cosy · sinx . cos x (cosy)2 'siny cosy cos x 1 (-siny costy (5) atcho f (a,b)



2'2 (ydx - xdy) 2 (x+2) y² (2+20)³ dz = (x+2) dx + (z y(x+2)) dy N 3394 du u3-3(x+y)u2+23-0 dx + Dy dy + Dz dz duz Du + 32 - 8(x+y) u 32 32 34(u-2(x+y)) Du 2 Uy - U - 2KHY) Du 2 + 322 22 3 (u2 - 2u(x+y)) - 3u(u-2(x+y)) du 2 42 (dx + dy) - 22 dx × 3399 1 dz 2 0x dx + 04 dy $\frac{\partial 2}{\partial x^2} + \frac{+2}{3z^2 - x}$ Dz 2 1 322-x 1 322-x'dy d2 2 322-x 'dx + 2 2 2 X = 3 4 2 - 2 2 dx - 3 dy 2 1/3 /2dx -dy) 3401 X+4+2 =0

1 2 dy + 1 + 2y dz + (Rx-3) (Rx+3) dx + B/2x-3) x(0= 2A + 2B 1 = 3A + (3B) 12 arcsin aresin (Ln(x1) = aresin $\int_{X^{2}}^{2} dy = 3 + e + e^{x^{2}} dx$ 1 x e dx 2 V. e x3 82

a) 25 ez dx | du = x dx J-e" x2 du 2 J-e" du 2 -e" u = arctg 5x1
d5 = /1 dx
du = 25x1 (x+1) = arctg([x]) x - J = [x+1) dx 0 1/ 5x1 2 5x1 - arctg(5x1) cucto 1 - (1 - aroto 1) - 0 + arcto 0 2 6) $\frac{3}{2}\int_{-x^{2}}^{x+2} \frac{x+2}{(x-1)} dx = 2 \int_{-x^{2}}^{x} \frac{3}{x^{2}} + \frac{3}{x-1} dx$ X+2 = A (x-1) + B x2 + B2x $\frac{1}{3} - 3 \ln(x) + \frac{2}{x} + \frac{3}{3} \ln(x-1) \Big|_{2}^{3} - 9 \ln(3) + \frac{18}{3} \ln(2) - \frac{1}{3}$ a) 1 1 x dx 2 dy 2 -2x dx 2 - 54-x2 - 12 + 13 2 /3 - 12 6) $\int_{x^{2}}^{e} hn^{2}x dx^{2} - hn^{2}(x) + 2 \ln(x) + 2 = \frac{5}{e}$ a) of 2/1 + Lnx du= x

2 35/2×2-3) du dx COS X d x 2 cos x d do 6

