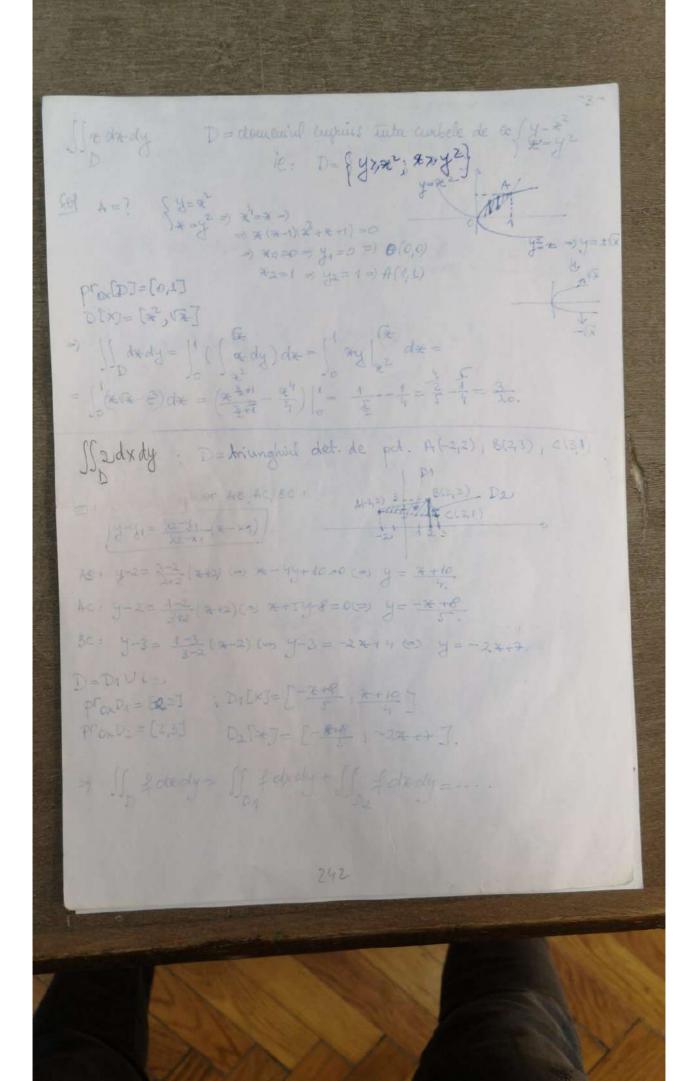
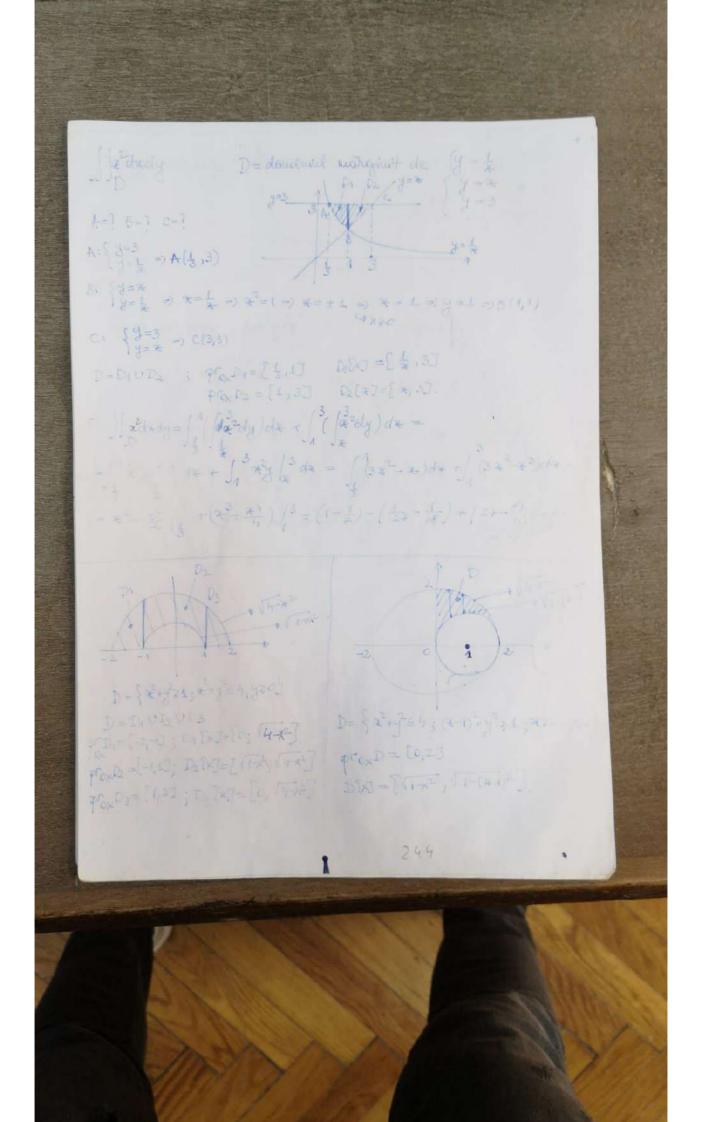
Taua integrale duble (1) >, Prin tireturi" 1) ] = [[(x+34) dxdy ) D= 9 (xy) ER2, x24 =4, y> (xxy) =- (xxy) 2) I= [(x-2y2) dxdy, D=1 (x,y) en2; y 2x, y \$2x+3, x=1 5) I= \( (1+x) dxdy, D= \( \langle (\text{x}/4) \in \text{2} \\ \text{x} + y^2 \in 2y, y \langle -x + 2 \\ \text{y} 4) I= [[2xy dxdy, D=Domeniul determede hopeful ABCD cu A(1,0) 18(1,4), c(3,4), D(5,0) 5) I = [ (4+ xy) dxdy , D= 9 (x,y) = 022 / 1 = xc2, y=2x, y=4x} 6) = SS (24+ xy) dxdy, M=9 (xy) e22/y-x=1, x+y=3 7) Ania (M)=) M=9(x,y)=22/x+42=4, y= V3xy 8) Ana (H)=) M= 9 (KIS) ER/ & =+x-1, y =-x+1)



I= I xy dxdy, I douround delimitat de y=x, y=2x+3 A(B=? x - 24+3 2-24-3=0  $X_{1/2} = \frac{2 \pm \sqrt{h+12}}{2} = \frac{2 \pm \sqrt{3}}{2} \begin{pmatrix} 3 \\ -1 \\ 3 \end{pmatrix}$   $I = \int_{-1}^{3} \left( \int_{x^2}^{2x+3} xy \, dy \right) dx = \int_{-1}^{3} \frac{xy^2}{2} \begin{pmatrix} 2x+3 \\ 4z \end{pmatrix}$ =  $\frac{1}{2} \int_{-\infty}^{3} (x(2x+3)-x^3) dx = \frac{1}{2} \int_{-\infty}^{3} (2x^2+3x-x^3) dx =$  $=\frac{1}{2}\left[\left(\frac{2x^{3}}{3}+\frac{3x^{2}}{2}-\frac{x^{4}}{4}\right)\right]_{-1}^{3}=\frac{1}{2}\left[\left(\frac{2\cdot3}{3}+\frac{3\cdot9}{2}-\frac{3^{4}}{4}\right)-\left(-\frac{2}{3}+\frac{3}{2}-\frac{1}{4}\right)\right]=$  $=\frac{1}{2}\left(\left(18+\frac{27}{2}-\frac{81}{4}\right)+\frac{2}{3}\left(\frac{3}{2}+\frac{1}{4}\right)\right)=\frac{1}{2}\left(18+12-20+\frac{2}{3}\right)=$  $=\frac{1}{2}\left(10+\frac{2}{3}\right)=\frac{3}{5}+\frac{1}{3}=\frac{16}{8}$  cond:  $53+\frac{1}{5}$ 



I= [ x qx dh , D= {(x) Deg; 1 = xh = 5; 1 = x = 5, x 20 } +: { y=2x =) x= 12; B, { y=x => x=1 C: } y = = = > 2 = 12 D: { } = = = = = 1 Pr D1=[+2,1]; pr D2=[1,12] DACAJ = [\$128]; DEFN=[x, ]]. I= SS + SS = S'(S2x dy) dx + St (S2x dy) dx =  $-\int_{1}^{1} xy^{12} dx + \int_{1}^{12} xy^{12} dx = \int_{1}^{1} (2x^{2} - 1) dx + \int_{1}^{12} (2 - x^{2}) dx = \int_{1}^{1} (2x^{2} - 1) dx + \int_{1}^{12} (2 - x^{2}) dx = \int_{1}^{12} (2x^{2} - 1) dx + \int_{1}^{12} (2 - x^{2}) dx = \int_{1}^{12} (2x^{2} - 1) dx + \int_{1}^{12} (2 - x^{2}) dx = \int_{1}^{12} (2x^{2} - 1) dx + \int_{1}^{12} (2 - x^{2}) dx = \int_{1}^{12} (2x^{2} - 1) dx + \int_{1}^{12} (2 - x^{2}) dx = \int_{1}^{12} (2x^{2} - 1) dx + \int_{1}^{12} (2 - x^{2}) dx = \int_{1}^{12} (2x^{2} - 1) dx + \int_{1}^{12} (2 - x^{2}) dx = \int_{1}^{12} (2x^{2} - 1) dx + \int_{1}$  $=\left(\frac{2x^2}{3}-x\right)\left|\frac{1}{1}+\left(2x-\frac{x^3}{3}\right)\right|^2=\left(\frac{2}{3}-1\right)-\left(\frac{x\frac{1}{10}}{3}-\frac{1}{12}\right)+\left(202-\frac{2\sqrt{2}}{3}\right)-\left(2-\frac{1}{3}\right)$ -1-3+12-4-652 10-652 = 552-6 352 352 3 - ANDE MARCE EXERT

If (x(y) dxdy = If f(x(p,0), y(p,0)): 7 dpdo

