21 cov (25, +2252, 1)= d, eov (5, h)+d2 eov (5, h)

3) E, S2 - Mesature = > cov (5, 5, 1=0

4) cov (5, 52) = 42 [D(5,+52)-D5, -D52]

5) (cov15, 52) 1 & 03. 052

3 aporte cobmersione mornocus paeppeg. 3 nh mueés brog (1x+y) Bosse C = 9(x,y) 10 = x, 0 = y, 0 = x+y = 2) n pabrico o bue G. Havita C n eouls, h/

fzh(x=y) = helx+y), ec

a) Mangende sff(x,y)dxdy = 9 cfdx f(x+y)dy = 3e => e=1

 $f_{3} = \int_{3}^{2\pi} \frac{3}{8} (x+y) dy = \frac{3}{8} (z-\frac{3}{2})$ $f_{3} = \int_{3}^{2\pi} \frac{3}{8} (x+y) dy = \frac{3}{8} (z-\frac{3}{2})$ $f_{3} = \int_{3}^{2\pi} \frac{3}{8} (x+y) dy = \frac{3}{8} (z-\frac{3}{2})$ $f_{3} = \int_{3}^{2\pi} \frac{3}{8} (x+y) dy = \frac{3}{8} (z-\frac{3}{2})$ $f_{3} = \int_{3}^{2\pi} \frac{3}{8} (x+y) dy = \frac{3}{8} (z-\frac{3}{2})$ $f_{3} = \int_{3}^{2\pi} \frac{3}{8} (x+y) dy = \frac{3}{8} (z-\frac{3}{2})$

 $M(z,h) = \int xy dx,y) dx dy = \frac{2}{3} \int dx \int (x^2y + y^2x) dy = \frac{19}{16}$

2) cov = (4,1)= 4 (5.4)-M3.Mb = 19 -9 = 5

M3 Bepoissures nonagainne espense 8 minusens - $\frac{1}{3}$. S-pabax renewy regar go replow ronagainne. Maistr Mp, ege $h = 5^2 + 25 - 1$ $P = \frac{2}{3} q = \frac{1}{3} \qquad M_{\frac{3}{2}} = P = \frac{1}{3} \cdot \frac{3}{2} = \frac{1}{2} \qquad D_{\frac{3}{2}} = M_{\frac{3}{2}} - (M_{\frac{3}{2}})^2$

 $Mh = M3^2 + QM < -1$ $Mh = \frac{7}{4} + 8 - 1 = \frac{7}{4}$ $D_{3} = M_{3}^{2} - (M_{3})^{2}$ $D_{3} = \frac{q}{p^{2}} = \frac{1}{3} \cdot \frac{q}{2} = \frac{3}{2}$ $M_{3}^{2} = D_{3} + (M_{3})^{2} = \frac{3}{2} + \frac{1}{q} = \frac{7}{4}$

<u>му</u> Одикаково распределенные, независимом смучай мом вешчения з ч h принимают значения 1,2 е равными вешченами. Naut на дисперень сму г. -в смиченног 15-h).

$$D_{5} = M_{5}^{2} - (M_{5})^{2}$$

$$M_{5} = \frac{1}{2}$$

$$M_{5}^{2} = \frac{1}{2}$$

$$D_{3} = \frac{1}{2} - \frac{1}{4} = \frac{1}{4}$$

luyeathan benume sumeet nonasatemonoe paenpeparenne e napamet pour $\lambda = \ln(3)$. Nation 3 mars 9-year paenpep en. 6. h = 15-1) e more e 3.

 $45 = \begin{cases} \ln 3 e^{-\ln 3^{-1} x}, & x = 0 \\ 0, & x < 0 \end{cases}$