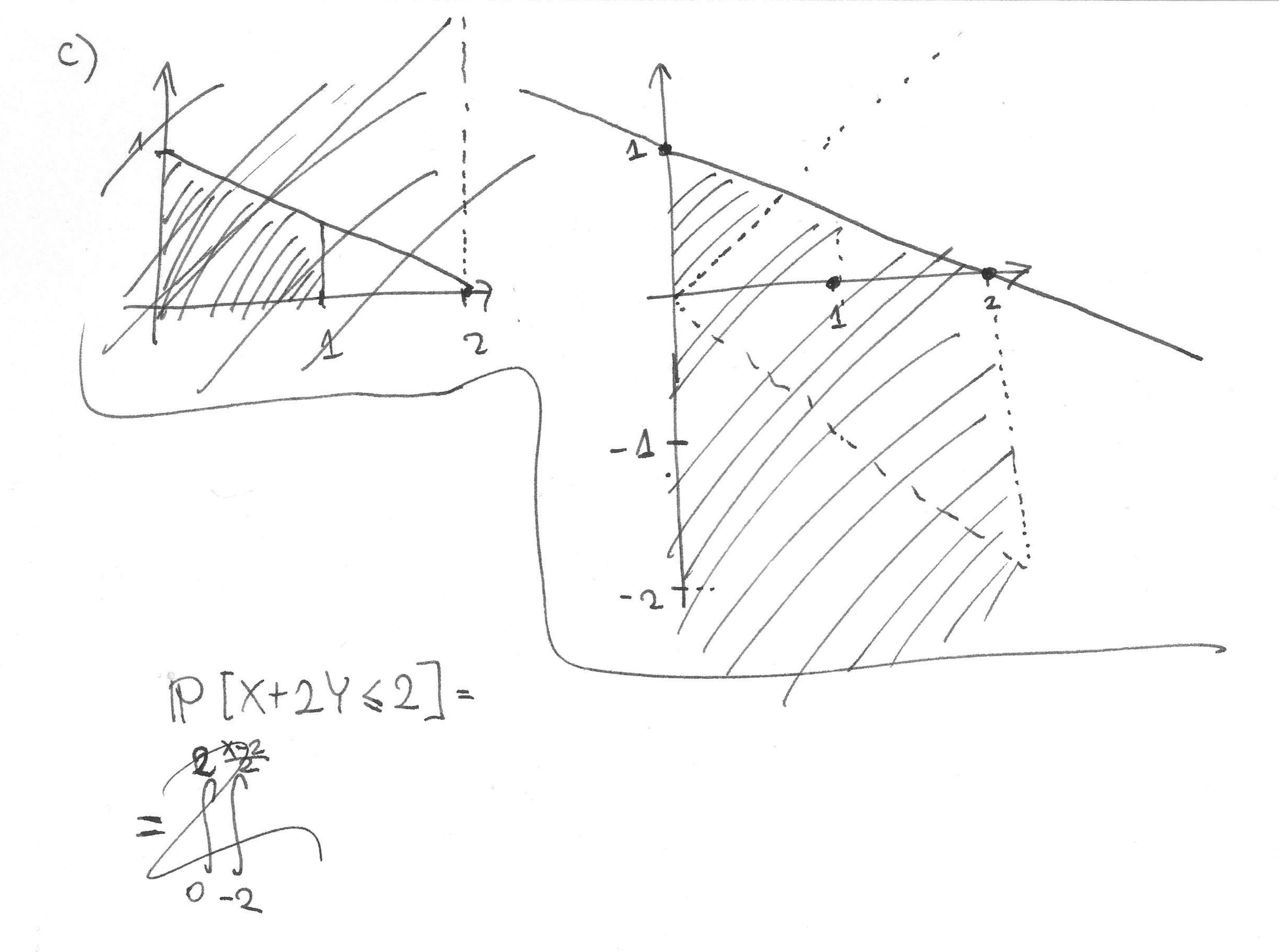
a) Chemy, zeby Jacky = 1 3(x,y) dx oby = 1 9/4/5×529 Mx(A)=P[XEA, YEIR]= [g(x,y) alx dy= ingo] g(x,y) dy dx = 5) g(x,y) oly olx = 4 $\int_{0}^{2} y \times |x|^{2} dx = \int_{0}^{2} 2x^{2} dx = \frac{2}{3}x^{3}|_{0}^{2} = \frac{16}{3}$ = \(\int \frac{3}{16} \times 1 \\ \times \times 2 \\ \times 2 \\ \times Cryli C = 3/18 $=\int_{A}^{3} \left| \frac{3}{8} \right|^{x} dx = \int_{A}^{3} \left| \frac{3}{8} \right|^{2} dx,$ Cry li fx(x)= 3/8 x° 1[0,2] (oczywiście myślimy, re fx określone na [0,2]) My(A) = P[XeR, YeA]=



d)
$$f_{X}(x) = \frac{3}{8}x^{2} \cdot 1_{[0,2]}$$
, $f_{9}(y) = \left[\frac{3}{8} - \frac{3}{32}y^{2}\right] 1_{[2,2]}$
 $P[X, 9e]$

 $X, Y \text{ sur niezel.} \iff f_X(x) \cdot f_Q(y) = g(x, y)$ when the nie j'est:

$$\frac{3}{8} \times^{2} \frac{1}{(0,2)} \cdot \left[\frac{3}{8} - \frac{3}{32} \cdot 9^{2}\right] \frac{1}{(-2,2)} \frac{(3)}{3} =$$

$$\frac{7}{8} \times^{2} \frac{1}{(0,2)} \cdot \left[\frac{3}{8} - \frac{3}{32} \cdot 9^{2}\right] \frac{1}{(-2,2)} \frac{(3)}{3} =$$

$$= 1_{21314 \times 424} \cdot \left[\frac{3}{64} \times^2 - \frac{3}{256} \times^3 y^2 \right] \neq \times -1_{1...y}$$