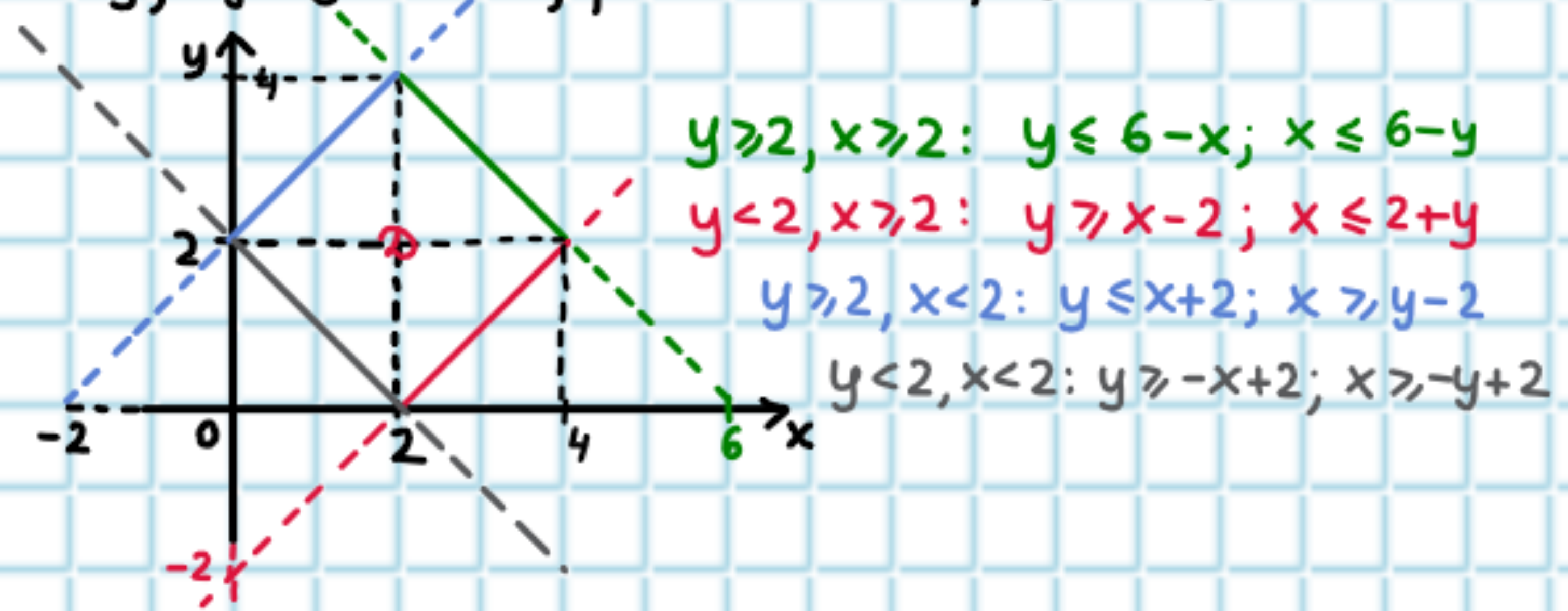


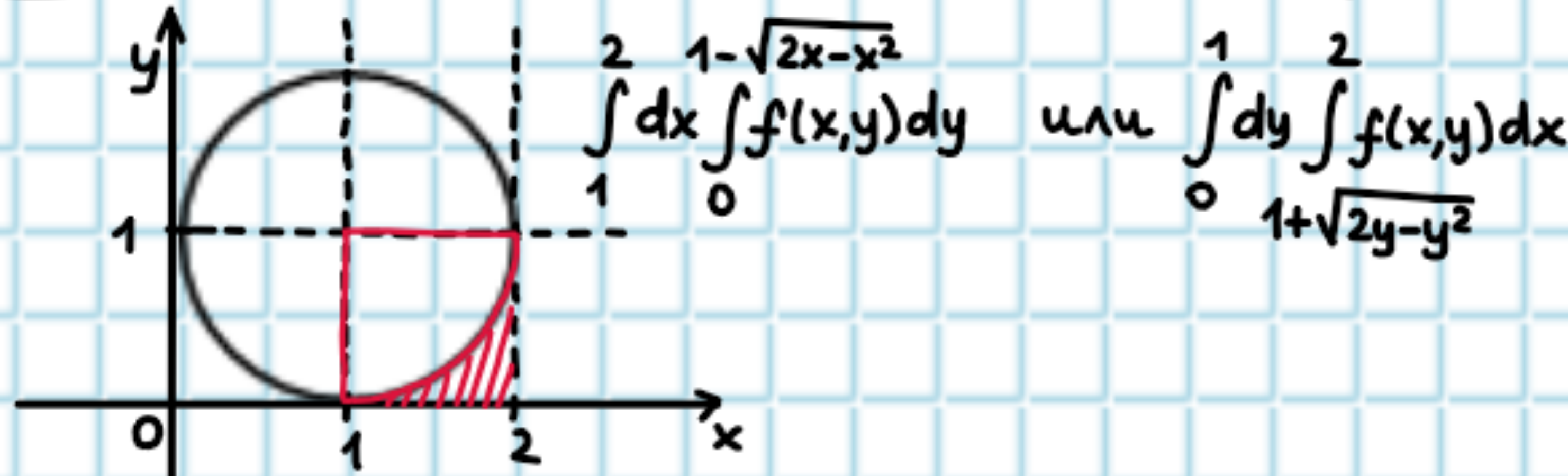
В двойном интеграле $\iint_D f(x,y) dx dy$, где $f \in C(D)$, расставить пределы для D .

(15.8) $D = \{(x,y): |x-2| + |y-2| \leq 2\}$

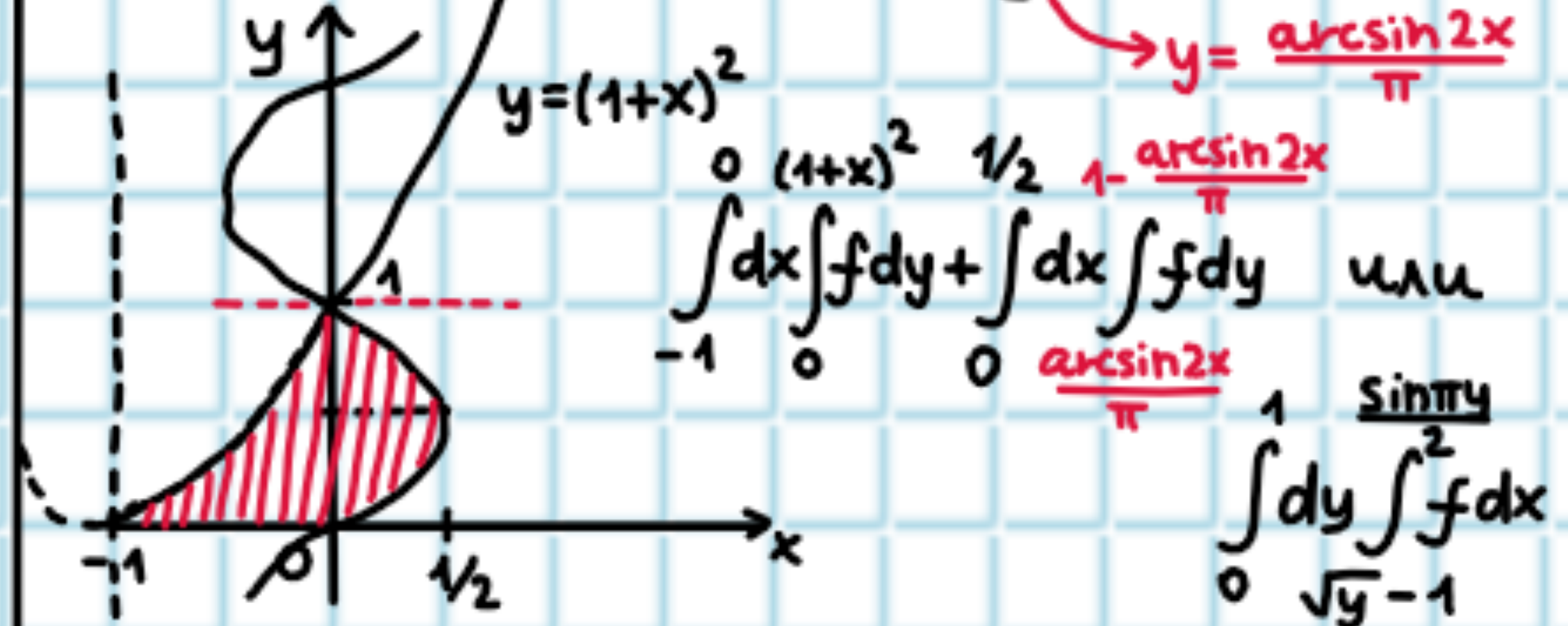
тогда $\int_0^2 dy \int_{2-y}^{2+y} f(x,y) dx + \int_2^4 dy \int_{y-2}^{6-y} f(x,y) dx$
или $\int_0^2 dx \int_{-x+2}^{x+2} f(x,y) dy + \int_2^4 dx \int_{x-2}^{6-x} f(x,y) dy$



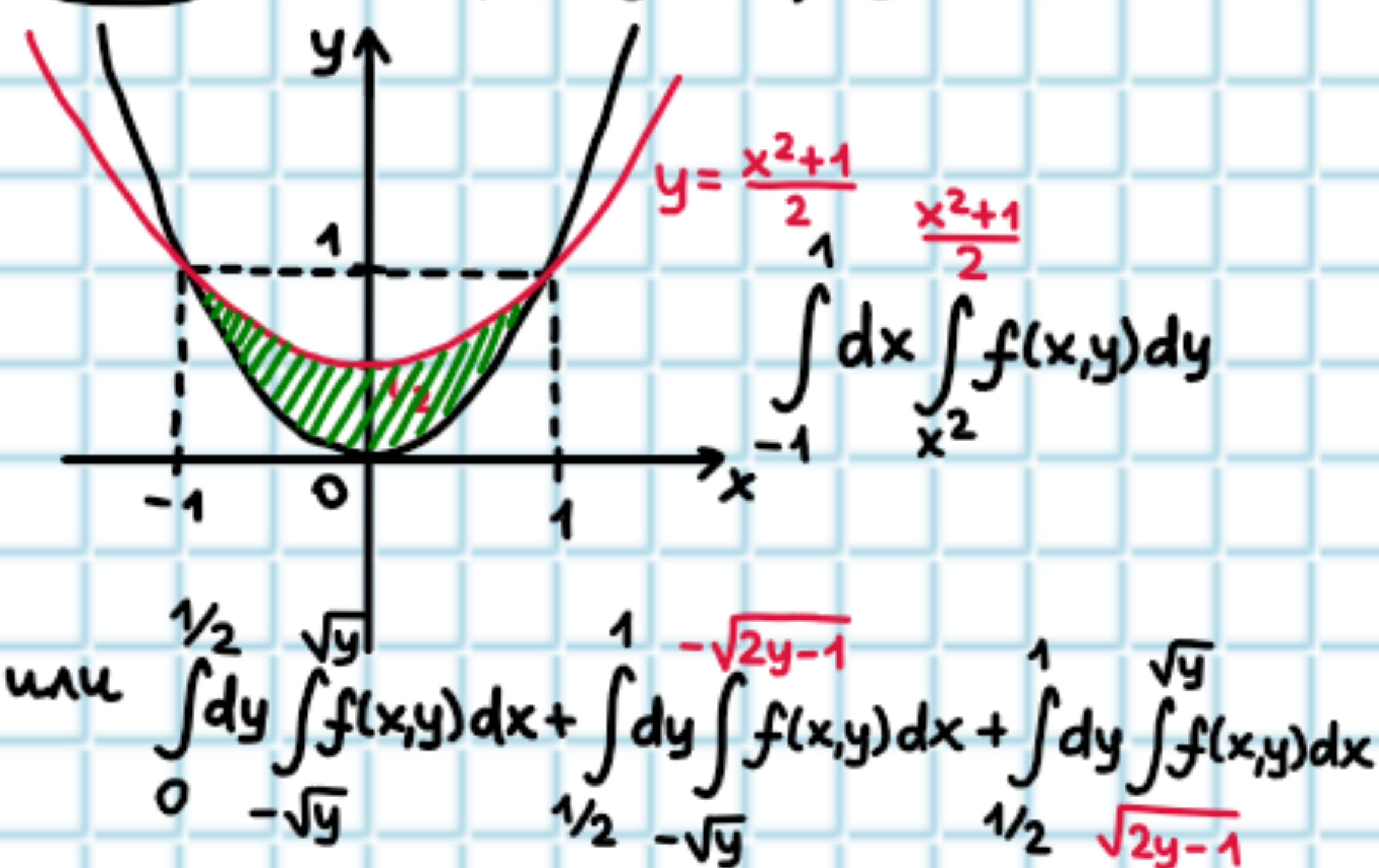
(15.11) $D = \{(x,y): (x-1)^2 + (y-1)^2 \geq 1, x \in [1;2], y \in [0;1]\}$



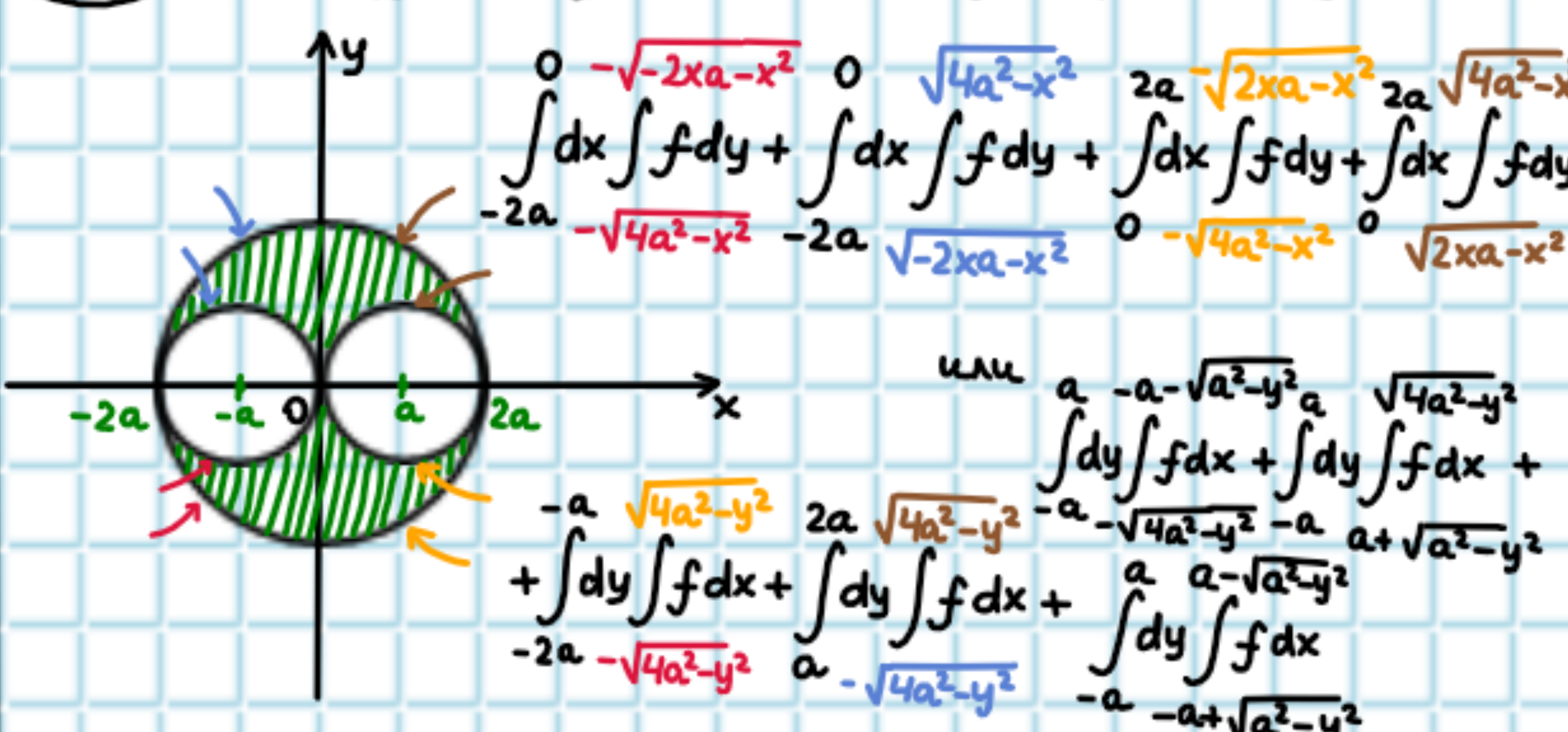
(15.19) D ограничена $x = \frac{\sin \pi y}{2}$, $y = (1+x)^2$, $y = 0$



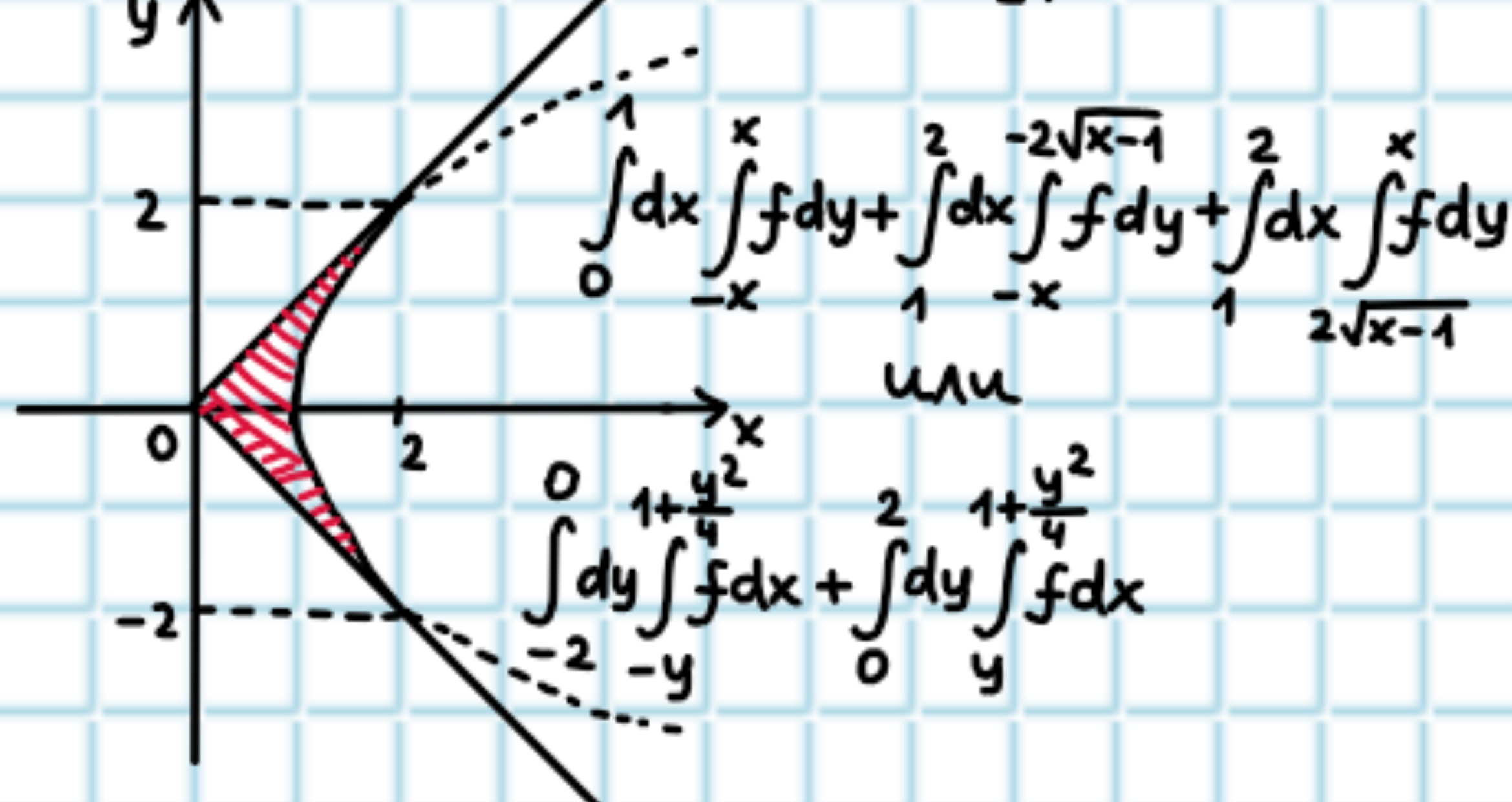
(15.13) $D = \{(x,y): y \geq x^2, 2y \leq x^2 + 1\}$



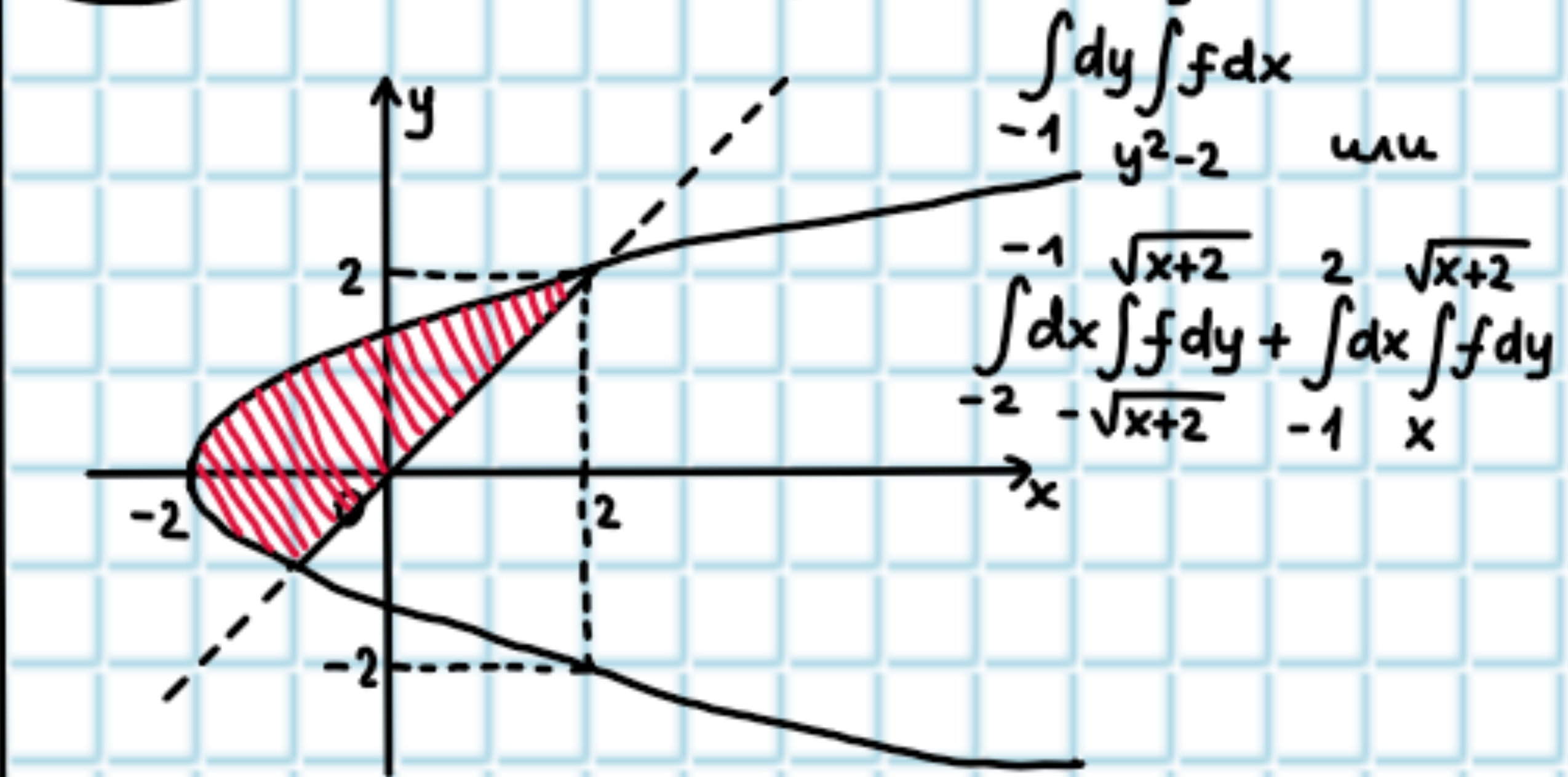
(15.16) $D = \{(x,y): x^2 + y^2 \leq 4a^2, (x-a)^2 + y^2 \geq a^2, (x+a)^2 + y^2 \geq a^2\}$



(15.21) D ограничена $x = |y|$, $y^2 = 4(x-1)$
 $M(\frac{1}{2}, 0) \in D$



(15.28) $D = \{(x,y): y^2 \leq x+2, y \geq x\}$



(15.32) $D = \{(x,y): -x \leq 2y \leq x, x^2 + y^2 \leq 1\}$

