Ω

$x \in A \setminus (\Omega \setminus B)$

$\Leftrightarrow x \in A \wedge$

$x \notin \Omega \setminus B$

$\Leftrightarrow x \in A \wedge x \in B$

$$P(A) = \frac{|A|}{|\Omega|} > 0$$

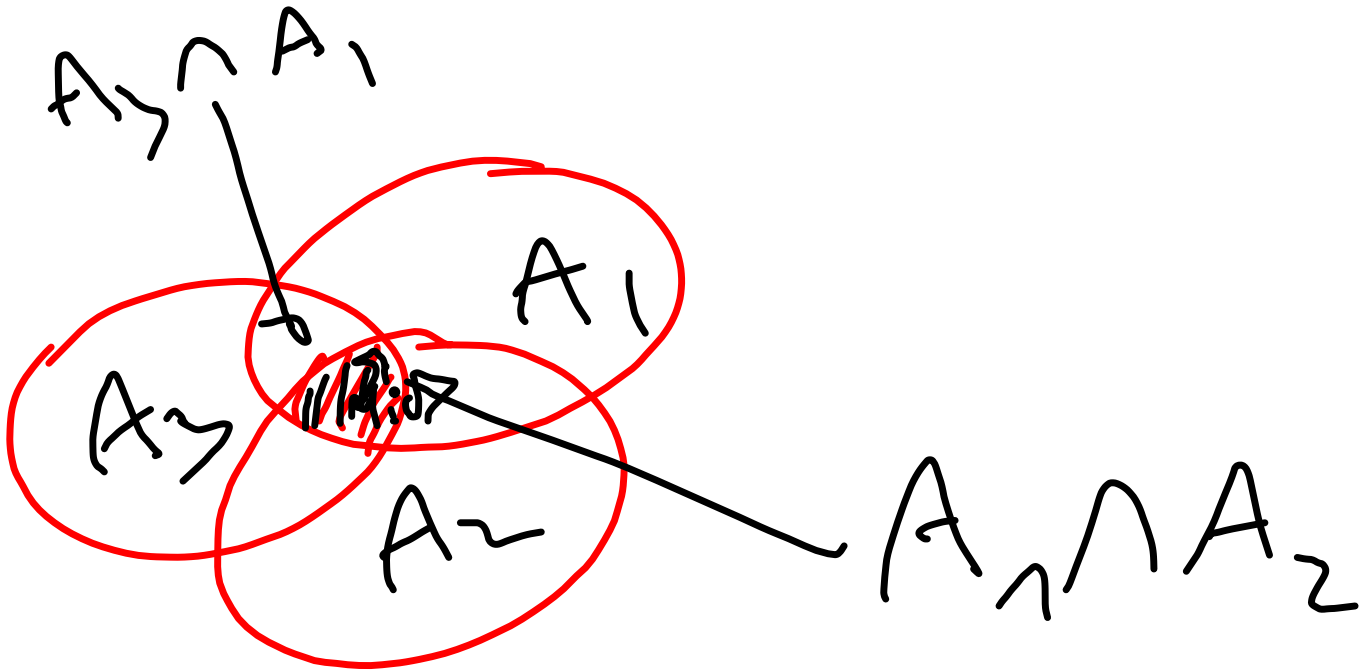
2: (1,1) $\longrightarrow$ 1/36

3: (1,2)
(2,1) $\longrightarrow$ 2/36 = 1/18

⋮

7: (1,6)
(2,5)
(3,4)
(4,3) $\longrightarrow$ 6/36 = 1/6
(5,2)
(6,1)

$A \cap B = \phi \Rightarrow P(A) + P(B) = P(A \cup B)$

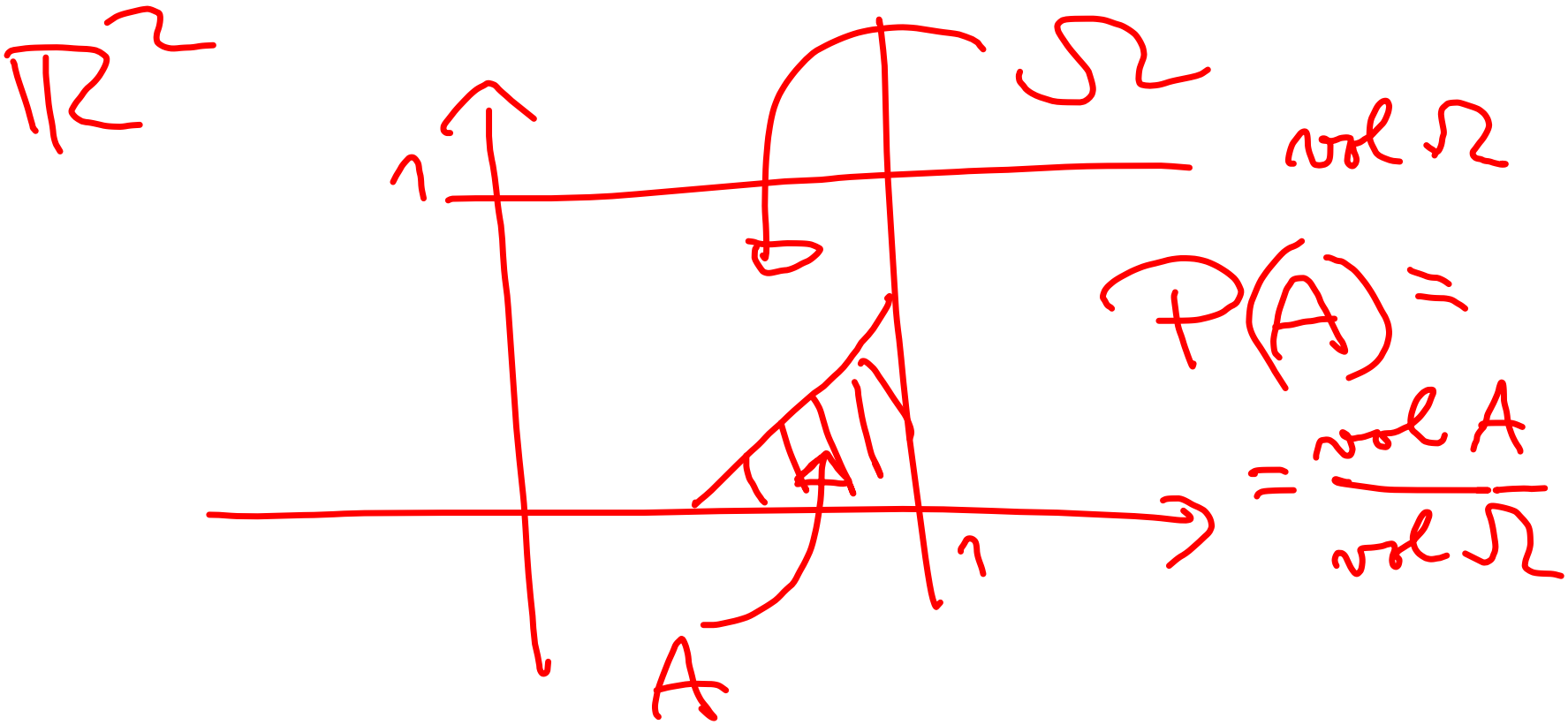


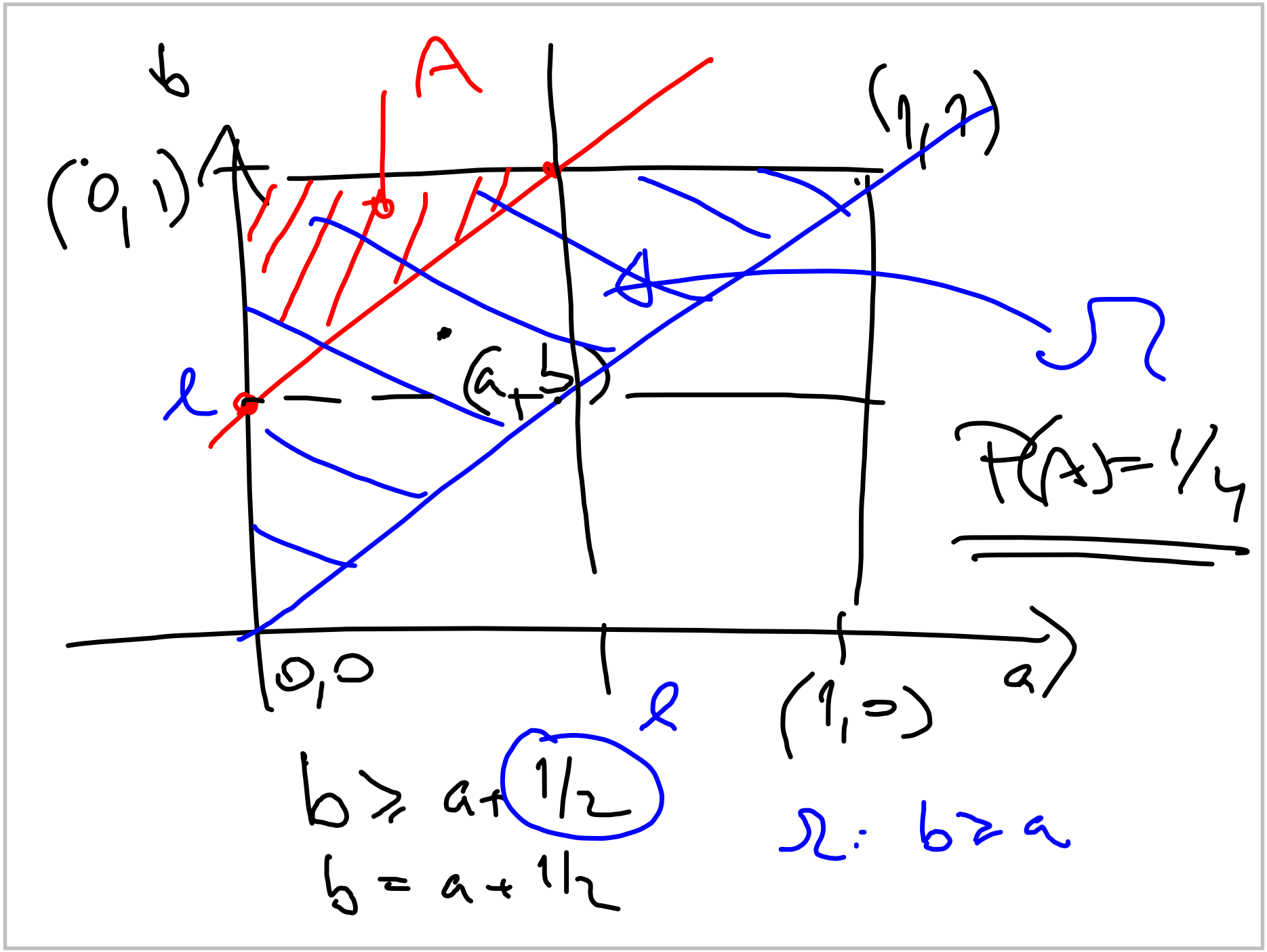
$x \in A_1 \cup A_2 \Leftrightarrow \underbrace{x \in A_1 \vee x \in A_2}$

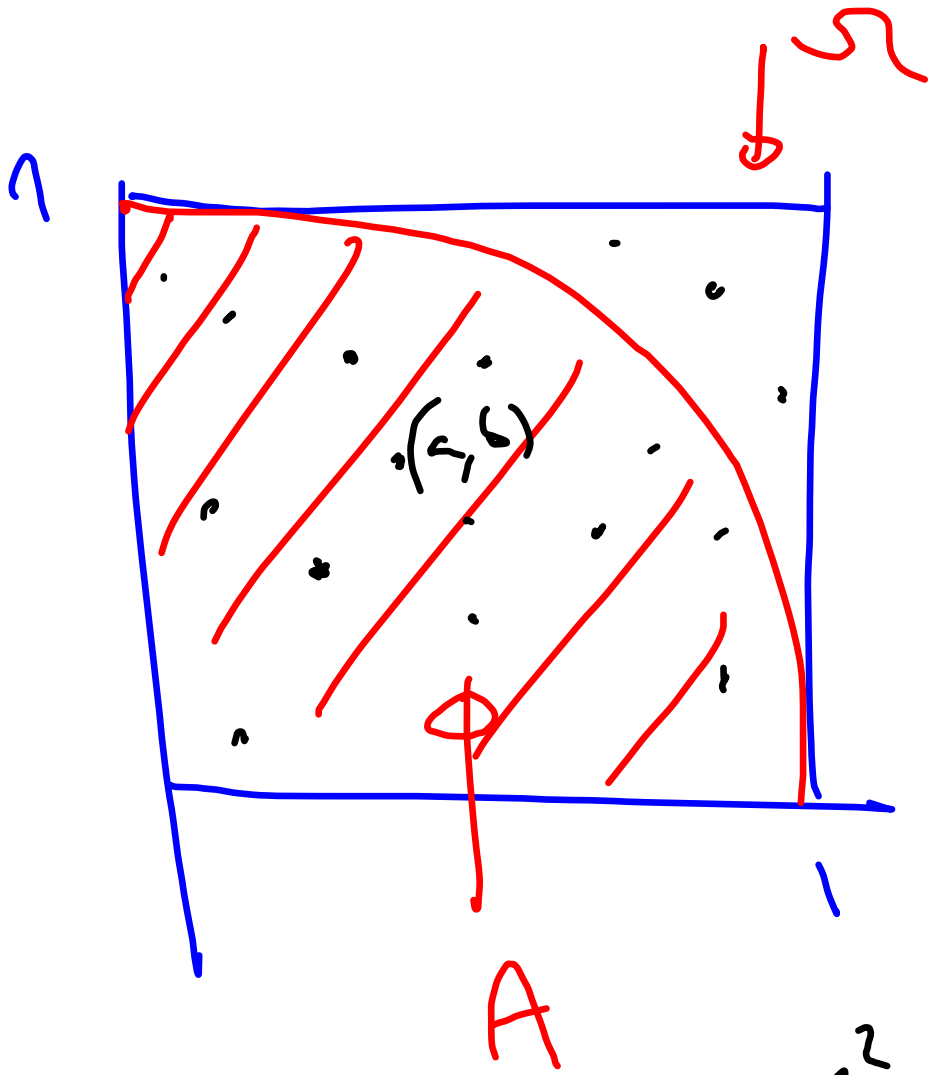
$x \in (A_1^c \cap A_2^c)^c \Leftrightarrow x \notin A_1^c \cap A_2^c \Leftrightarrow x \notin A_1^c \vee x \notin A_2^c$

$\Leftrightarrow \underbrace{x \in A_1 \vee x \in A_2}$

$$P(A_1)\,\frac{P(A_2 \cap A_1)}{P(A_1)}\,\frac{P(A_3 \cap A_2 \cap A_1)}{P(A_2 \cap A_1)}$$




b
A
(0,1)
(1,1)
(a,b)
a
0,0
(1,0)
a
b ≥ a + 1/2
b = a + 1/2
Ω: b ≥ a



$$\text{vol } A = \frac{1}{4}\pi$$

$$\text{vol } \Omega = 1$$

$$a^2+b^2 \overset{?}{<} 1$$

$$!$$