

$$① A = \{1\}$$

$$P(A) = 2^1 = 2$$

$$\{\{1\}, \emptyset\}$$

$$P(P(A))$$

$$= \{\{\{1\}\}, \{\emptyset\}, \{\{1\}, \emptyset\}\}$$

$$② \text{ (a) } \mathbb{R}^2 \subseteq \mathbb{R}^3$$

$$\text{(b) } \begin{array}{c|c} x(x^2-1) & x^2-1 \\ x = -1, 0, 1 & x = -1, 1 \end{array}$$

$$\textcircled{1} N \subseteq P(N)$$

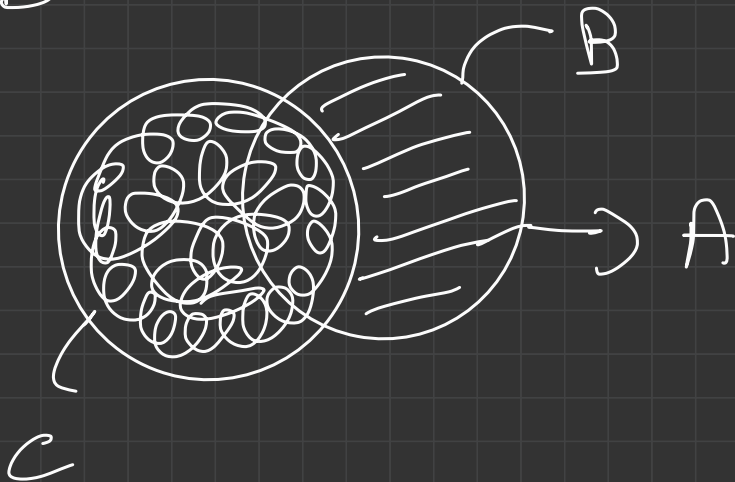
$$N = \{1, 2, 3, 4\}$$

$$P(N) = \{\{1\}, \{2\}, \dots\}$$

$$\textcircled{2} A = B - C$$

$$x \in A = x \in B \wedge x \notin C$$

$$B = A \cup C$$



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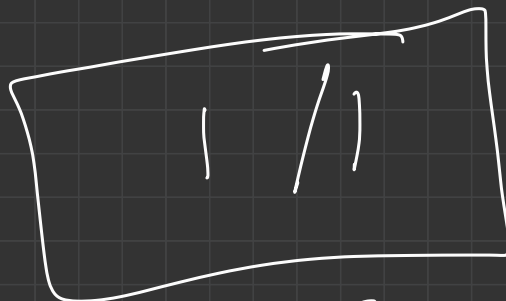
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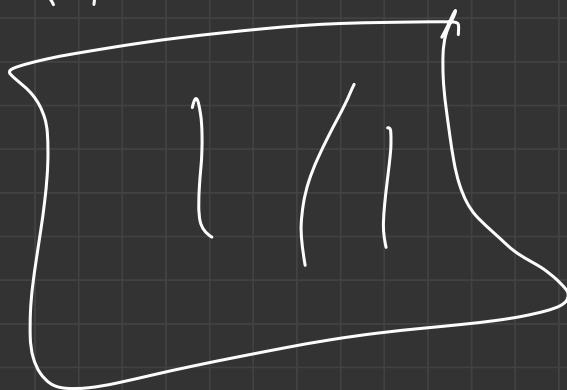
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$\{1, 4, 9, 16, \dots\}$

$\{1, 8, 27, \dots\}$



$$\{0, 1\}$$

$$\{-1, 1\}$$

$$P(A) = \{\{1\}, \emptyset\}$$

$$P(P(A)) = \{\{\{1\}\}, \{\emptyset\}, \{\{1\}, \emptyset\}, \emptyset\}$$

$$10$$

$$\frac{\sum 1}{204}$$

$$0.25$$

$$0.1 \times 0.25$$