

Exercise

True or False:

1. Sets A, B, and C with a cardinality of 10, 20, and 30, respectively. Then, $|A \cap B \cap C| \geq 10$. *False*
2. Sets A, B, and C with a cardinality of 10, 20, and 30, respectively. Then, $|A \cup B \cup C| \geq 10$. *True*
3. If $|A \times B| < |A|$, then $B = \{\}$. *True*

Exercise

$$A = \mathbb{Q} \cap \{x | x \in \mathbb{R} \wedge x > \sqrt{2}\}$$

1. $0 \in A$ *False*

2. $5 \in A$ *True*

3. $\sqrt{3} \in A$ *False*