

Number of Disjoint Unions

Result

We call two sets A, B disjoint or non-overlapping¹ if $A \cap B = \emptyset$.

Proposition 1. Suppose A and B are disjoint finite sets. Then $|A \cup B| = |A| + |B|$

This is often called the addition principle or the rule of sum.

 $^{^{1}}$ Future sheets may move this definition elsewhere.

