

Exercise 3.32. [1WC] Explain the formula $\bigcup_{B \in \mathcal{P}(A)} B$ using the definition [1Y2] of the axiom of union. Then show that $A = \bigcup_{B \in \mathcal{P}(A)} B$.

See also [028] where the same result is obtained starting from the axiom of union as defined in [026] in the Zermelo–Fraenkel axiomatic.

Solution 1. [1WV]