

SET UNIONS AND INTERSECTIONS

Why

We study how intersection and union interact.

Results

The following are easy results.¹ They are known as the *distributive laws*.

Proposition 1.
$$A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$$

Proposition 2.
$$A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$$

¹The accounts will appear in future editions.

