Answer to Question #85817 – Math – Algebra Question

For any two sets A and B, A intersection $B' = A \setminus B$ Is the statement true. Justify your answer.

Solution

Yes, this statement is true since

 $x \in A \cap B' \Leftrightarrow x \in A, x \in B'$ $\Leftrightarrow x \in A, x \notin B$ $\Leftrightarrow x \in A \backslash B$

It was proved that

 $A \cap B' = A \backslash B$

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