## Answer on Question \#74586 - Math - Discrete Mathematics

## Question

Which of the following statement are True?

1. $(A / B) \cup C=A /(B \cap C)$ for any three sets $A, B, C$.

## Solution

This statement is False.
One can take $A=\{1\}, B=\{2\}, C=\{3\}$ then:
$A / B=\{1\},(A / B) \cup C=\{1,3\}$, and
$B \cap C=\{ \}, A /(B \cap C)=\{1\}$, so
$(A / B) \cup C \neq A /(B \cap C)$ for these $A, B, C$.
Answer: False.

