## 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:  $A/B = \{1\}, (A/B) \cup C = \{1,3\}, \text{ and}$  $B \cap C = \{\}, A/(B \cap C) = \{1\}, \text{ so}$  $(A/B) \cup C \neq A/(B \cap C)$  for these A, B, C. **Answer:** False.

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