Answer on Question #80437 – Math – Discrete Mathematics

Question

Draw a Venn diagram of sets B,A and C where A . ⊆ ,B A ∩ C ≠ ф, B∩ C = ф
What is the universal set you have chosen? Justify your choice of sets in the diagram.

Solution

If $A \subseteq B$, then $A \cap C \subseteq B \cap C$. Hence $B \cap C$ shouldn't be empty because $A \cap C$ isn't empty.

Answer: it is impossible.