

NCERT/CBSE MATHEMATICS CLASS 11 textbook

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MISCELLANEOUS EXERCISES

Answers to NCERT/CBSE MATH (Class XI) textbook

SETS

12. Find sets A, B and C such that $A \cap B$, $B \cap C$ and $A \cap C$ are non-empty sets and $A \cap B \cap C = \phi$.

Solution: We need to find three sets, such that there is atleast one common element between A and B, B and C and A and C, but no element is common in all three sets A, B and C.

Let $A = \{ a, b, c, d \}$ $B = \{ c, d, e, f \}$ $C = \{ a, f, g, h \}$

Now $A \cap B = \{ c, d \}$, $B \cap C = \{ f \}$ and $A \cap C = \{ a \}$

But $A \cap B \cap C = \phi$

Please do not copy the answer given here

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