

SAINIK SCHOOL AMBIKAPUR
SUMMER VACATION HOMEWORK (2025-26)

“Dear Cadets, Have a wonderful vacation with joy, enthusiasm and Happy Learning”

Class XI

1. Solve 1500 MCQ Questions given by NDA Team.
2. Solve all Exercise questions of the chapters Sets, Relations and Functions and Trigonometric Functions from NCERT Book.

Do the following by cutting and pasting activities

3. To find the number of subsets of a given set and verify that if a set has n number of elements, then the total number of subsets is 2^n .
4. To verify that for two sets A and B , $n(A \times B) = pq$ and the total number of relations from A to B is 2^{pq} , where $n(A) = p$ and $n(B) = q$.
5. To represent set theoretic operations using Venn diagrams.
6. To verify distributive law for three given non-empty sets A , B and C , that is, $A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$
7. To verify the relation between the degree measure and the radian measure of an angle.