

# CBSE Sample Paper Class 11 Maths Set 7

CBSE Board  
Class XI Mathematics

Time: 3 hrs

Total Marks: 100

## General Instructions:

1. All questions are compulsory.
2. The question paper consist of 26 questions divided into three sections A, B and C. Section A comprises of 06 questions of one mark each, section B comprises of 13 questions of four marks each and section C comprises of 07 questions of six marks each.
3. All questions in Section A are to be answered in one word, one sentence or as per the exact requirement of the question.
4. There is no overall choice. However, internal choice has been provided in 04 questions of four marks each and 02 questions of six marks each. You have to attempt only one of the alternatives in all such questions.
5. Use of calculators is not permitted.

## SECTION - A

1. Find the derivative of  $\sin(x + 1)$ .
2. Find the truth value of p: 'Every real number is either prime or composite.'
3. Simplify:  $\frac{1+3i}{1-2i}$
4. A coin is tossed twice. Find the probability of getting atleast one head.
5. Find the new co-ordinates of the point (9, 4) if the origin is shifted to the point (1, 2) by translation of axes.
6. Identify the conic section represented by the equation  $4x^2 + y^2 = 100$  and draw its rough graph.

## SECTION - B

7. A and B are two sets such that  $n(A - B) = 14 + x$ ,  $n(B - A) = 3x$  and  $n(A \cap B) = x$ , draw a Venn diagram to illustrate the information. If  $n(A) = n(B)$ , then find the value of x.
8. If the power sets of two sets are equal, then show that the sets are also equal.

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**Léo Pomar**



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