

SUBJECT: MATHEMATICS CLASS : XII
**MAX. MARKS : 100
DURATION : 3 HRS**
General Instruction:

- (i) All questions are compulsory.
- (ii) This question paper contains 29 questions.
- (iii) Question 1- 4 in Section A are very short-answer type questions carrying 1 mark each.
- (iv) Question 5-12 in Section B are short-answer type questions carrying 2 marks each.
- (v) Question 13-23 in Section C are long-answer-I type questions carrying 4 marks each.
- (vi) Question 24-29 in Section D are long-answer-II type questions carrying 6 marks each.

SECTION – A
Questions 1 to 4 carry 1 mark each.

- If the binary operation $*$ on the set of integers Z , is defined by $a * b = a + 3b^2$, then find the value of $2 * 4$.
- If $f: R \rightarrow R$ be defined by $f(x) = (3 - x^2)^{1/3}$, then find $f \circ f(x)$.
- If A is a 3×3 matrix, $|A| \neq 0$ and $|3A| = k |A|$, then write the value of k .
- Find a vector in the direction of vector $2\hat{i} - 3\hat{j} + 6\hat{k}$ which has magnitude 21 units.

OR

Find the unit vector in the direction of vector \overrightarrow{PQ} , where P and Q are the points (1, 2, 3) and (4, 5, 6), respectively.

SECTION – B
Questions 5 to 12 carry 2 marks each.

- Prove that $\tan^{-1} \sqrt{x} = \frac{1}{2} \cos^{-1} \left(\frac{1-x}{1+x} \right)$, $x \in (0, 1)$
- If $\begin{bmatrix} x-y & z \\ 2x-y & w \end{bmatrix} = \begin{bmatrix} -1 & 4 \\ 0 & 5 \end{bmatrix}$, find the value of $x + y$.
- If $y = \cot^{-1} \sqrt{\frac{1-\sin x}{1+\sin x}}$, find $\frac{dy}{dx}$.
- Evaluate: $\int \frac{xe^x}{(1+x)^2} dx$

OR

Evaluate: $\int \frac{1}{\sqrt{2x-x^2}} dx$

- Find the approximate change in the volume V of a cube of side x meters caused by increasing the side by 2%.
- If \vec{a} and \vec{b} are perpendicular vectors, $|\vec{a} + \vec{b}| = 13$ and $|\vec{a}| = 5$ find the value of $|\vec{b}|$.

OR

If $\vec{a} = 5\hat{i} - \hat{j} - 3\hat{k}$ and $\vec{b} = \hat{i} + 3\hat{j} - 5\hat{k}$, then show that the vectors $\vec{a} - \vec{b}$ and $\vec{a} + \vec{b}$ are perpendicular.

Maths Paper Grade 12

Marilyn Buchanan



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Mathematics for Life and Work A Comparative Perspective on Mathematics to Inform Upper Secondary Reform in England OECD,2024-11-05 Engagement and performance in mathematics at the upper secondary level have been the concern of successive governments in England This report was commissioned as part of the country's policy reflections for transforming how maths is viewed and experienced in England The report explores outcomes such as the share of students studying maths and performance across countries and how education systems internationally deliver mathematics in upper secondary It also examines factors shaping maths education including the expectations set by curricula student pathways cultural perceptions and the needs of the labour market and higher education *Mathematics 2* Kunihiro Kodaira, See the blurb for Japanese Grade 10 [Last 5+1 Year's CBSE Class 12th Mathematics Solved Question Papers - eBook](#)

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