

**खण्ड स**  
**SECTION C**

प्रश्न संख्या 13 से 23 तक प्रत्येक प्रश्न के 4 अंक हैं।

Question numbers 13 to 23 carry 4 marks each.

13. यदि  $\tan^{-1} \frac{x-3}{x-4} + \tan^{-1} \frac{x+3}{x+4} = \frac{\pi}{4}$  है, तो  $x$  का मान ज्ञात कीजिए।

If  $\tan^{-1} \frac{x-3}{x-4} + \tan^{-1} \frac{x+3}{x+4} = \frac{\pi}{4}$ , then find the value of  $x$ .

14. सारणिकों के गुणधर्मों का प्रयोग कर, सिद्ध कीजिए कि

$$\begin{vmatrix} a^2 + 2a & 2a + 1 & 1 \\ 2a + 1 & a + 2 & 1 \\ 3 & 3 & 1 \end{vmatrix} = (a - 1)^3$$

अथवा

आव्यूह  $A$  ज्ञात कीजिए कि

$$\begin{pmatrix} 2 & -1 \\ 1 & 0 \\ -3 & 4 \end{pmatrix} A = \begin{pmatrix} -1 & -8 \\ 1 & -2 \\ 9 & 22 \end{pmatrix}$$

Using properties of determinants, prove that

$$\begin{vmatrix} a^2 + 2a & 2a + 1 & 1 \\ 2a + 1 & a + 2 & 1 \\ 3 & 3 & 1 \end{vmatrix} = (a - 1)^3$$

OR

# Maths Question Paper Grade 12

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## **Maths Question Paper Grade 12:**

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