

Worksheet: Determinants

ICSE · Class 12 · Mathematics · 8 questions · 31 marks

Name: _____	Date: _____	Score: _____ / 31
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Q1. Evaluate $[[[3,-1],[2,4]]]$. *[2 marks]*

Q2. Is $A=[[2,4],[1,2]]$ singular or non-singular? *[2 marks]*

Q3. Find the area of the triangle with vertices $(0,0)$, $(4,0)$, $(0,3)$. *[4 marks]*

Q4. Find the cofactor A_{21} of the matrix $[[1,2,3],[4,5,6],[7,8,10]]$. *[3 marks]*

Q5. Find the inverse of $A=[[3,1],[2,1]]$. *[5 marks]*

Q6. Solve using the matrix method: $3x+y=7$, $x+2y=4$. *[6 marks]*

Q7. Examine the consistency of $x+2y=3$, $2x+4y=6$. [5 marks]

Q8. If $|A|=5$ for a 3×3 matrix A , find $|\text{adj}(A)|$ and $|2A|$. [4 marks]
