Worksheet: Determinants

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

Name: _____ Date: _____ Score: _____ / 31

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 A21 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 3x3 matrix A, find |adj(A)| and |2A|. *[4 marks]*