# Algebra - Matrices

## Grade 11 | Difficulty: Medium

1. Find the determinant of the matrix: | 2 3 | | 4 5 |

2. Calculate the inverse of the matrix: | 1 2 | | 3 4 |

3. Multiply the matrices: | 1 0 | | 0 1 |  *  | 2 3 | | 4 5 |

4. Solve the system of equations using matrices: Ax = B

5. Find the rank of the matrix: | 1 2 3 | | 4 5 6 | | 7 8 9 |