

MEMORIAL UNIVERSITY OF NEWFOUNDLAND
DEPARTMENT OF MATHEMATICS AND STATISTICS

SECTION 3.2

Math 2050 Worksheet

WINTER 2026

For practice only. Not to be submitted.

1. A and B are 5×5 matrices for which $\det A = -7$ and $\det B = 3$. Find $\det(A^3 B^T (-2B) A^{-1})$.
2. Find the determinant of

$$A = \begin{bmatrix} 0 & 4 & -2 & 6 \\ 1 & 3 & 0 & -2 \\ 1 & 0 & 1 & -2 \\ -1 & 1 & -4 & 0 \end{bmatrix}$$

by reducing to upper triangular form.