MEMORIAL UNIVERSITY OF NEWFOUNDLAND

DEPARTMENT OF MATHEMATICS AND STATISTICS

SECTION 2.6   **Math 2050 Worksheet**   WINTER 2026

For practice only. Not to be submitted.

1. Solve the system
$$\left. \begin{array}{rcrcrcr} 5x & + & 2y & - & z & = & 12 \\ x & & & + & 4z & = & -13 \\ -2x & & & + & z & = & -1 \end{array} \right\}$$
by first carrying out an LU-factorization of the matrix of coefficients A.