

MEMORIAL UNIVERSITY OF NEWFOUNDLAND
DEPARTMENT OF MATHEMATICS AND STATISTICS

SECTION 1.5

Math 1090 Worksheet

FALL 2026

For practice only. Not to be submitted.

1. Simplify each of the following.

(a) $\frac{3x+9}{x^2-1} \cdot \frac{x+1}{2x^2+5x-3}$

(b) $\frac{2}{2x-5} + \frac{1}{x+1}$

(c) $\frac{1}{9-x^2} + \frac{1}{x-3}$

(d) $\frac{x-2}{x-4} - \frac{x+3}{x^2-2x-8}$

(e) $\frac{\frac{2}{x+2} - 1}{1 - \frac{3}{x+3}}$

(f) $x(x-4)^{-2} + 3(x-4)^{-1}$