

MEMORIAL UNIVERSITY OF NEWFOUNDLAND

DEPARTMENT OF MATHEMATICS AND STATISTICS

SECTION 1.2

Math 1090 Worksheet

FALL 2026

For practice only. Not to be submitted.

1. Use the laws of exponents to express each of the following in simplified form.

(a) $(4x^5y^2)(3xy^{-4})$

(b) $\left(\frac{x}{y^{-3}}\right)^{-2}$

(c) $(x^{-1}y^3)^2(3x^0y)^{-3}$

(d) $\frac{x^{-2}y^{-2}}{(3xy)^{-3}}$

(e) $\left(\frac{xy^2}{x^2y}\right)^4 \left(\frac{x^3y^{-2}}{x^{-3}y^2}\right)^{-1}$

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