

Name:

Section 1.1b – Proficiency Check

Simplify Completely with only Positive Exponents:

Emerging	Proficient	Extending
$(2^{-2}ab^2c^4)^3$	$\frac{(3a^5b^4)^{-1}(4ab^{-2})^{-3}}{(a^3b)^4}$	$\left(\frac{9ab^{-1}}{8a^{-2}b^2}\right)^2 \left(\frac{3a^2b^2}{2a^{-2}b^1}\right)^{-3}$

Simplify completely with only Positive Exponents where necessary:

Emerging	Proficient	Extending
$4^{-\frac{1}{4}} \cdot 4^{-\frac{3}{4}}$	$243^{-\frac{4}{5}}$	$\frac{\left(\frac{1}{2}\right)^x \cdot 16^x}{8^x}$