

Properties of Exponents (Section 4.1)

1) Simplify. Show all work. $(-4m^3r^4)^3(m^0r)$

Negative Exponents (Section 4.2)

Simplify each expression. Do not use negative exponents in your answer.

2) $\frac{4x^2y^{-2}}{5z^{-6}}$

3) $\left(\frac{m^2p}{2r^3}\right)^{-5}$

Scientific Notation (Section 4.2)

For problems 4 and 5, write the number in scientific notation.

4) 0.547×10^{-12}

5) 84.2×10^8

Evaluate Polynomials (Section 4.3)

6) Evaluate the polynomial for $x = -3$: $-2x^3 - 3x^2 + 4x + 2$