Ch. 5. Sec. 1

Simplify. Use positive exponents for any variables. Assume that all bases are not equal to 0.

① $3^0 - 7p^0$

Use the quotient rule to simplify.

② $\dfrac{-6a^6 b^5 c^{11}}{3a^2 b^3 c^9}$

Simplify. Use positive exponents for any variable.

③ $\dfrac{6p^{-11} p^4}{p^{-7}}$

④ $\dfrac{3a^{-6} b^7}{6a^4 b^{-2}}$

Ch. 5. Sec. 2

Simplify. Write the answer using positive exponents only.

① $\left(\dfrac{5x^4 y^7}{10x^3 y^{-7}}\right)^{-3}$

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

Perform the operation. Write the answer in Scientific notation.

③ $\dfrac{3.5 \times 10^{-9}}{7 \times 10^{14}}$