

Incorrect. In this case, $\frac{(a^2b^{-3}c^7)^2}{(abc^5)^3}$ can be simplified to $\frac{a^{2(2)}b^{-3(2)}c^{7(2)}}{a^3b^3c^{5(3)}}$, which can then be simplified to $\frac{a^4b^{-6}c^{14}}{a^3b^3c^{15}}$

. Remember that $\frac{x^n}{x^m} = x^{n-m}$. Does this help you simplify the expression?