

Incorrect. Be sure to use the exponent rules: $(x^n)^m = x^{nm}$ and $x^n x^m = x^{n+m}$. In this problem, $a^3(a^5 a^{-2})^2 = a^3(a^{5-2})^2 = a^3(a^3)^2 = a^3 a^6$. Does this help you simplify the expression?