

Incorrect. Be sure to use the exponent rules:  $(x^n)^m = x^{nm}$  and  $x^n x^m = x^{n+m}$ . Also, remember that  $a^n b^m = b^m a^n$ . In this case,  $(a^{-3}b^2)^4 \cdot (a^5b^{-3})^3$  can be simplified to  $a^{-3(4)}b^{2(4)} \cdot a^{5(3)}b^{-3(3)}$ . Does this help you simplify the expression?