

Incorrect. To simplify this expression, simplify each expression and then multiply them:

$(a^{-3}bc^4)^{-4} \cdot (a^2b^8c^{-3})^2 = a^{-3(-4)}b^{1(-4)}c^{4(-4)}a^{2(2)}b^{8(2)}c^{-3(2)}$ . What does this simplify to? Remember to use the exponent rules:  $(x^n)^m = x^{nm}$  and  $x^n x^m = x^{n+m}$ .