

Hint for Problem 188

From the last two questions, try multiplying out something simpler first, say

$$(a_0 + a_1x + a_2x^2)(b_0 + b_1x + b_2x^2)$$

. If this problem seems difficult the part that seems to cause students the most problems is converting the expression they get for a product like this into summation notation. If you are having this kind of problem, expand the product $(a_0 + a_1x + a_2x^2)(b_0 + b_1x + b_2x^2)$ and then figure out what the coefficient of x^2 is. Try to write that in summation notation.