2) (10 pts) ANL (Summations)

a) (5 pts) Determine the value of the following summation, in terms of n: $\sum_{i=1}^{2n}(4i + 7)$. Express your final answer as a polynomial in the form $an^2 + bn$, where a and b are integers.

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b) (5 pts) Determine the value of the summation below:

$\sum_{i=21}^{100}(3i + 1)$

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