Mathematical Analysys Exercise

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1 Summation notation

If we have a sum like this:
$a(1) + a(2) + a(3) + ... + a(n)$
We can write in a simplified way:
$$\sum_{j=1}^{n} a(j)$$

$b(7) + b(9) + b(11) + ... + b(51)$
can be simplified to:
$$\sum_{j=4}^{26} b(2j - 1)$$
$c(8) - c(10) + c(12) - c(14) + ... - c(78)$
$$\sum_{i=4}^{39} (-1^{i}) * c(2i)$$