Back to the list

 $2, 5, 8, 11, 14, 17, 20, 23, 26, \ldots$

- These numbers are all equivalent to 2 modulo 3.
- Notice that each "number difference" is 3.
- By the theorem $n \equiv 2 \pmod{3} \iff 3 | (n-2)$,
 - which means n-2 = 3k for some $k \in \mathbb{Z}$,
 - which gives the formula n = 3k + 2.

In general, the set of all numbers that are congruent to k modulo n is given (explicitly) by the formula

 $\alpha n + k, \alpha \in \mathbb{Z}.$

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