Arithmetic Progression Formulas

We have the following arithmetic progression formulas which are tabulated below:

Sequence	a, $a+d$, $a+2d$, ……, $a + (n-1)d$, ….
Common Difference	$d = (a_2 - a_1)$, where a_2 and a_1 are successive term and preceding term respectively.
General Term (nth term)	$a_n = a + (n-1)d$
nth Term from the last term	$a_{n'} = l - (n-1)d$, where l is the last term
Sum of first n terms	$S_n = n/2[2a + (n-1)d]$
Sum of first n terms if first and last term is given	$S_n = n/2[\text{first term} + \text{last term}]$

Here,
a = *first term*
d = *common difference*
a_n = *nth term*
$a_{n'}$ = *nth term from the last term*
S_n = *Sum of n terms of AP*
n = *total number of terms*
l = *last term*