

Topics

12.1 → Seq.

↳ make a seq. given the rule ($a_n =$)

↳ make a rule given the seq. (3, 6, 9, ...)

↳ explicit (plug in "n" → "a_n")12.5 → Recursive (prev. term) (a_{n-1})

↳ make a seq. / make a rule.

12.2 → Arith. Seq (add/sub)

↳ $a_n = a_1 + (n-1)(d)$ *

↳ 12.1 and 12.5 stuff.

↳ Given 2 terms find a_n .↳ $d = m = \frac{y_2 - y_1}{x_2 - x_1}$

12.3 → Geo. Seq (mult.)

↳ $a_n = a_1(r)^{n-1}$ *

↳ 12.1/12.5/12.2 stuff.

12.1/12.2/12.3 → Series (3 + 6 + 9 + ...)

↳ Book formulas (pg 797) *

↳ summation notation

$$\sum_{i=1}^n a_i$$

end
n
m
start

12.4 → Inf. Geo. Series

↳ $S_\infty = \frac{a}{1-r}$; $|r| < 1$ *