

Summary: Recursive & Explicit Equations

Recursive $f(x) = f(x-1) + 3$ ← this part changes for each different function

$f(x) = f(x-1) + 3$; $f(0) = -5$

↑ 0th term
Starting term
(can use $f(0)$ instead of $f(1)$)

Example
 $f(x) = f(x-1) \cdot 2$; $f(1) = 2$
 $f(x) = f(x-1) \cdot 6$; $f(1) = 6$
 $f(x) = f(x-1) \cdot 2$; $f(1) = 6$

Explicit plug in x to find f(x)

x	f(x)
1	3
2	6
3	12
4	24
5	48
100	2 ¹⁰⁰ ?

$3 \cdot 2^3$
 $3 \cdot 2^4$

geometric/exponential function

how many times you multiply

$f(x) = 3 \cdot 2^{(x-1)}$

starting term

what you multiply by each time (common ratio)

4th Summary: Recursive & Explicit Equations

3.

4th M1 1.5

$$\begin{array}{r} 7450 \\ \times 52 \\ \hline 14900 \\ 37250 \\ \hline 387900 \end{array}$$

do \$4.95 to every person that receives the email
or have spent?

39,000,000

7th M2 1.3

