Airthmetic segmens (lines)
and
Geometric segmens. (exponentials) an=3n+2 (discrete) an.

formation d. 15 the common difference (Slope). (A) = (1 $a_n = 5 + 3(n-1)$ $a_n = a_1 + d(n-1)$ $a_n = 3n + 2$

Geometic Segues (exposit)

$$0 = 3\left(\frac{1}{2}\right)^{3}$$

$$a_1 = \frac{3}{2}$$
 $a_1 = \frac{3}{16}$
 $a_2 = \frac{3}{16}$

$$\frac{G_2}{a_1} = \frac{3}{4} \cdot \frac{2}{3} = \frac{1}{2}$$

$$\frac{a_5}{a_4} = \frac{3}{32} \cdot \frac{16}{3} = \frac{1}{2}$$

$$\frac{8}{600 \text{ K}} = \frac{6}{6} \frac{1}{6} \frac{$$

Recursively defined seguences.

Ex Fibonacci:

Noto: the rule to operate Xn is noto: the rule to operate Xn is previous previous given by Knowing Previous X1=1, X2=1, X3=2, X4=3, X5=5

 $\frac{\mathcal{E}_{x}}{X_{1} = 3} \qquad \begin{array}{l} X_{n} = 2 \times x_{n-1} + 2 \times$

× n=

